



JEEP COLD AIR INDUCTION KIT (2018 & UP)

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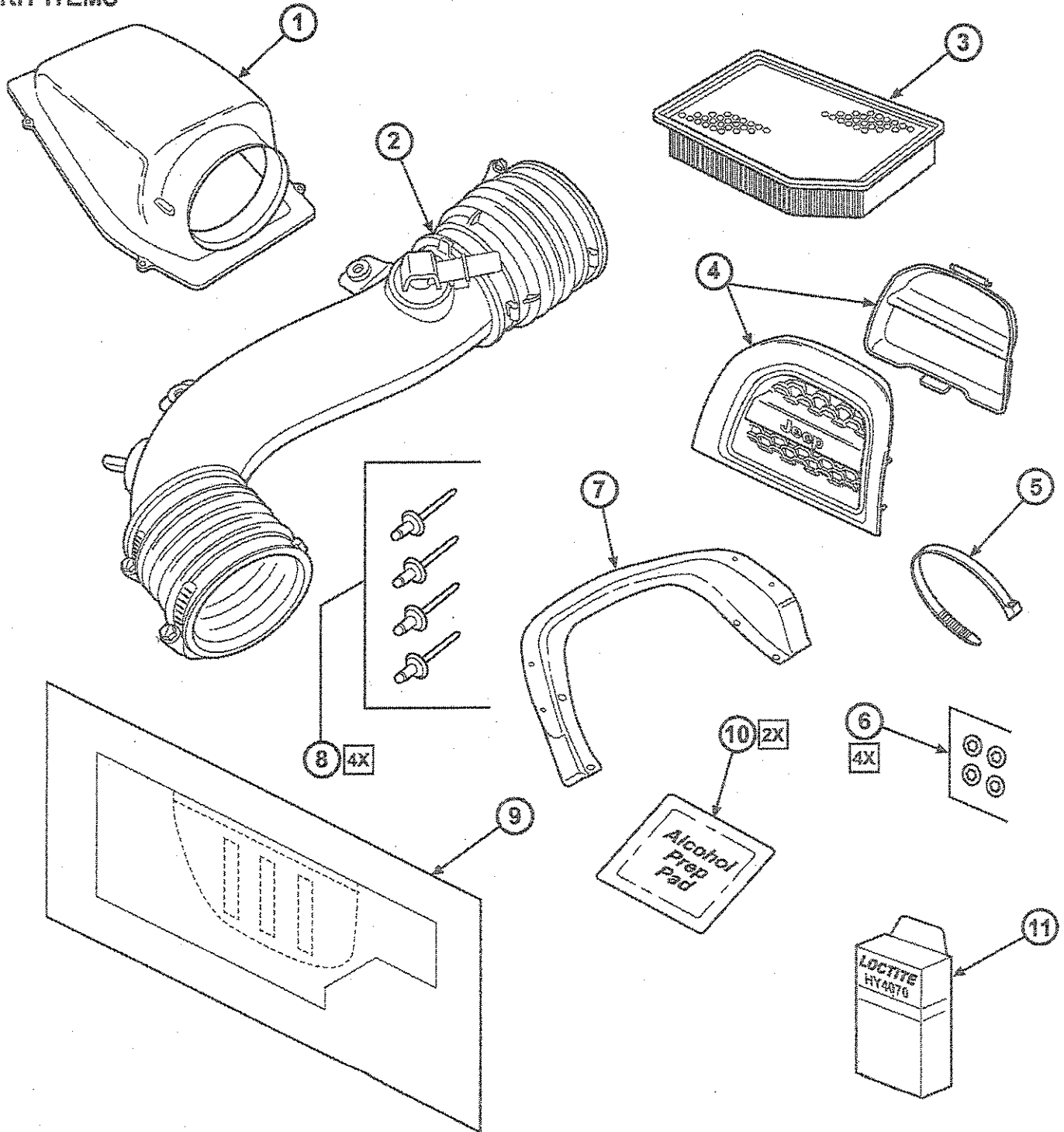
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VEHICLES DRIVEN ON TRACKS OR OFF-
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PART SHOULD NOT BE DRIVEN ON PUBLIC
ROADS OR HIGHWAYS.**

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VEHICLE EQUIPPED WITH THIS PART
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STATE/PROVINCIAL, AND LOCAL LAWS,
REGULATIONS, AND ORDINANCES.
VEHICLES EQUIPPED WITH THIS PART AND
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REGULATIONS.**



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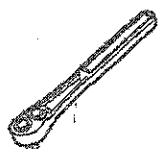
KIT ITEMS



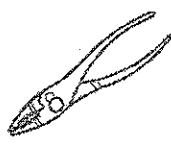
TOOLS REQUIRED



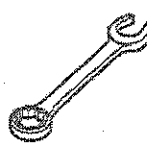
Torque Wrench



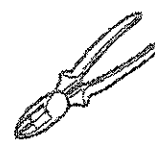
Socket Wrench



Pliers



Wrench 10mm



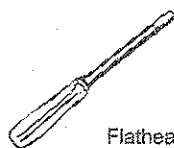
Wire Cutters



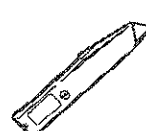
Grease Pencil

Socket
10mmSocket
8mm

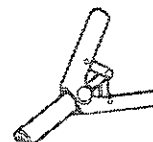
Trim Tool

Flathead
Screwdriver

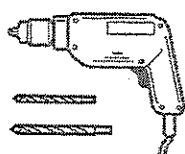
Shop Rags



Knife



Pop Rivet tool

Power Drill
13/64" Drill Bit
1/8" Drill Bit

Scissors



Masking Tape



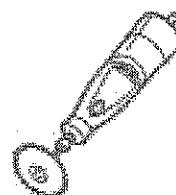
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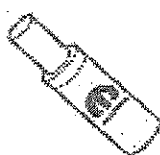
Marker



T50 Torx

Power Saw - Dremel or Equivalent
(1-1/2" Metal Cutoff Wheel)

Protective Primer



Touch Up Paint



Spring Punch



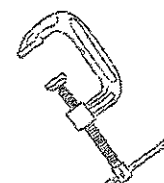
X-ACTO Knife



Hole Punch



Safety Glasses



(3) C-Clamps

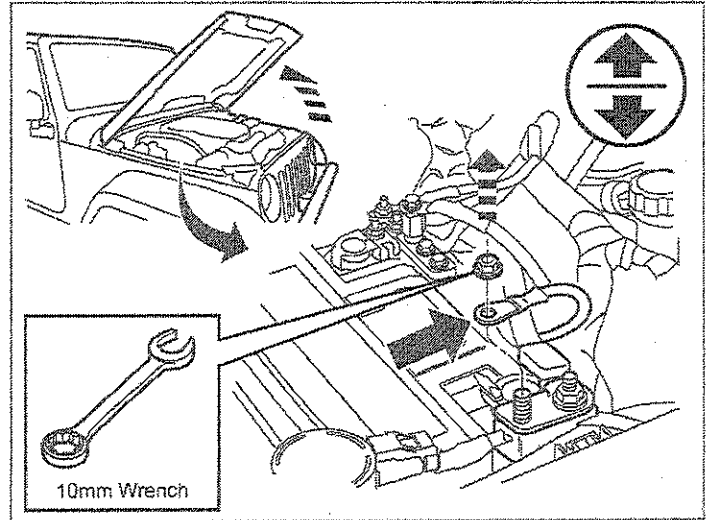
PARTS LIST

Callout	Description	Parts	Quantity
1	Air Cleaner Lid	Supplied in kit	1
2	Clean Air Duct Assembly	Supplied in kit	1
3	Air Filter	Supplied in kit	1
4	Outer Bezel & Backer Plate	Supplied in kit	1
5	Wire Tie	Supplied in kit	1
6	Push Nuts	Supplied in kit	4
7	Hood Support Structure (Inner)	Supplied in kit	1
8	Rivets	Supplied in kit	4
9	Hood Cut Out Template	Supplied in kit	1
10	Alcohol Prep Pad	Supplied in kit	2
11	Loctite HY 4070 Adhesive	Supplied in kit	1

PROCEDURAL STEPS

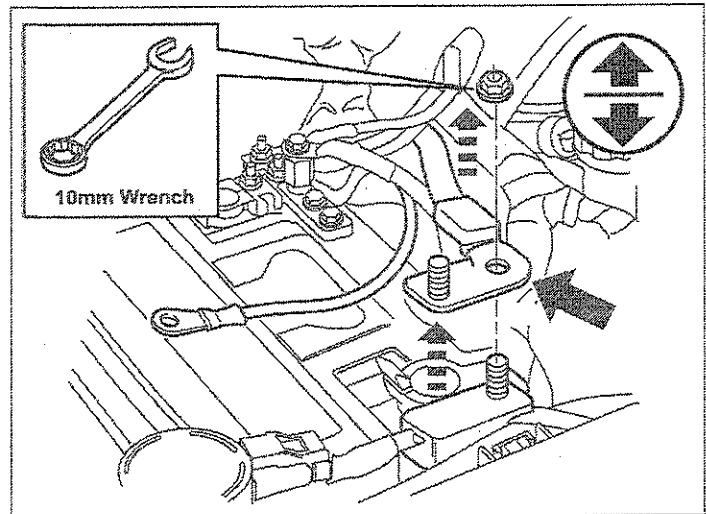
1. Open hood and remove the nut for the supplemental battery cable with a 10mm wrench. Isolate away from the negative "-" battery post.

Save hardware for reinstallation.

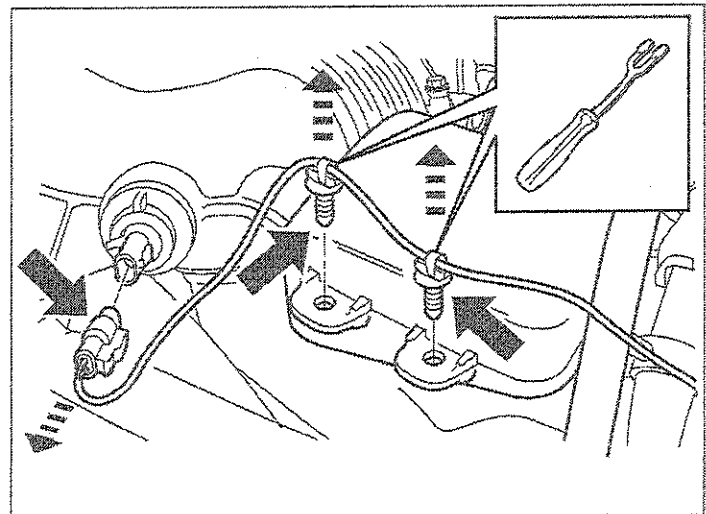


2. Remove the second nut from the main "-" negative cable with a 10mm wrench. Isolate away from the negative "-" battery post.

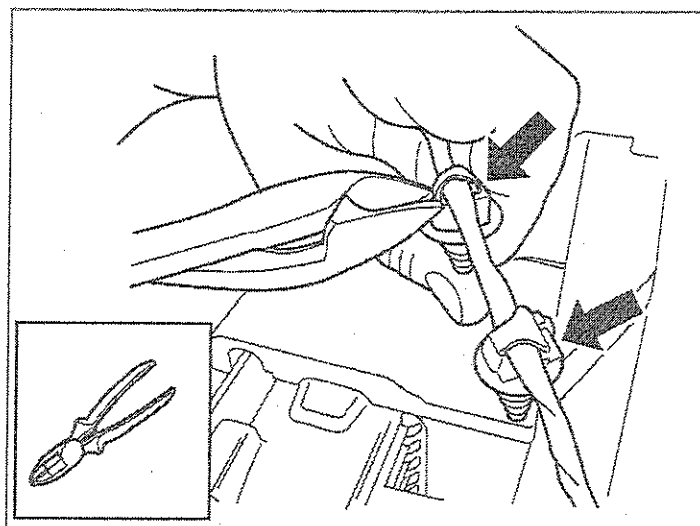
Save hardware for reinstallation.



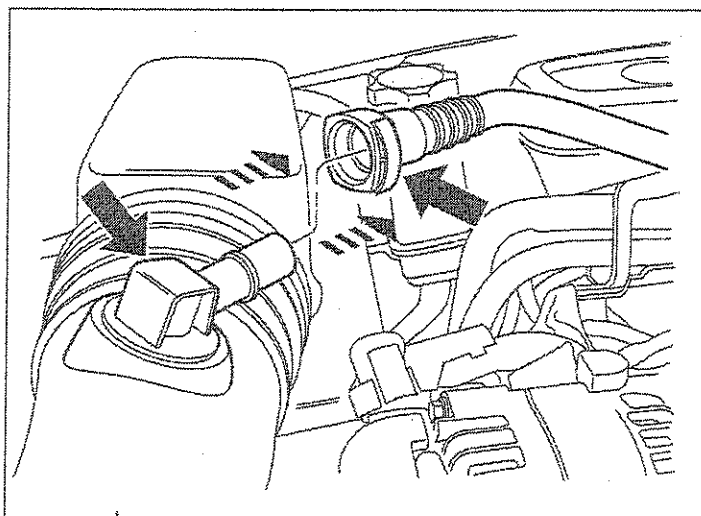
3. Remove two push pins using the trim tool. Also Disconnect the speed density sensor connector.



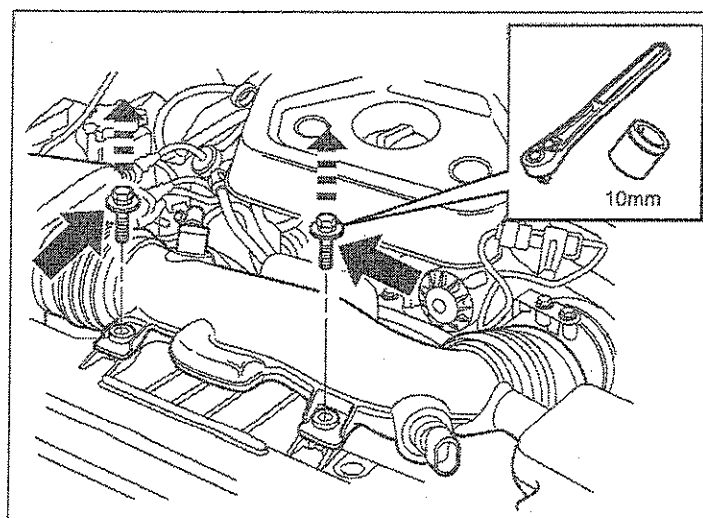
4. Cut both push pin loops around speed density wire and discard push pins.



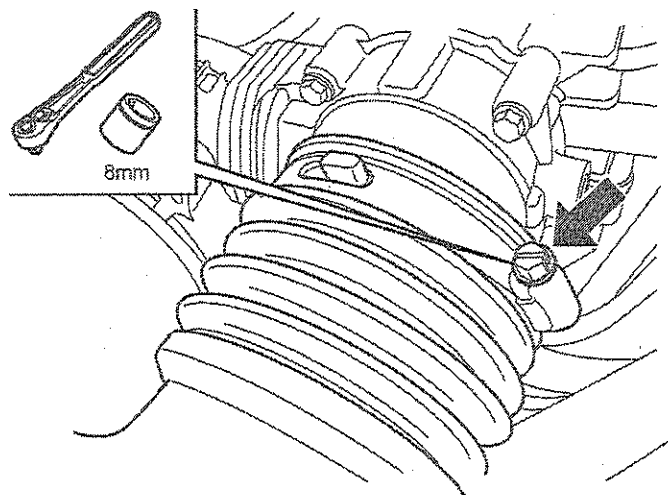
5. Disconnect MUA hose from air inlet tube by pressing in the "gray" button with one hand and removing it with the other hand.



6. Remove two M6 bolts from air inlet housing with a 10mm socket wrench. Save bolts for reinstallation.

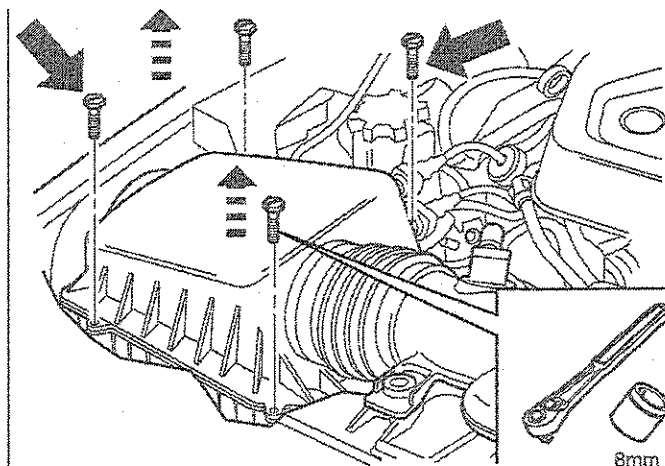


7. Loosen the hose clamp on the air inlet tube at the throttle body assembly, with a 8mm socket. Do not remove clamp.

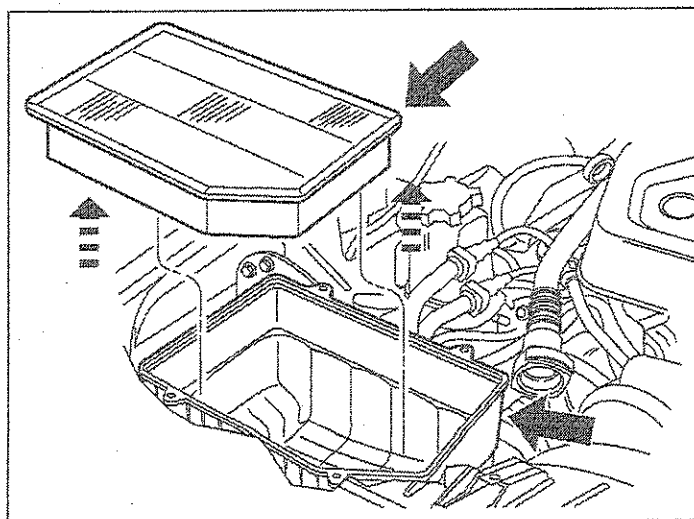


8. Remove the four M5 air cleaner cover screws with a 8mm socket. Save the screws for reinstallation.

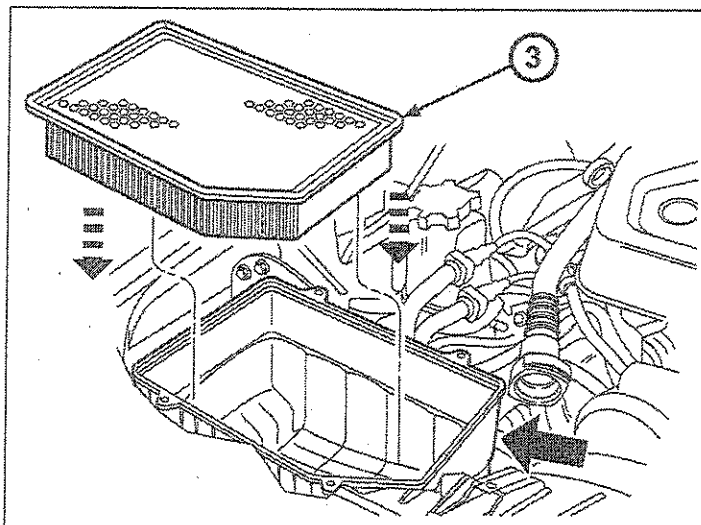
Remove entire air cleaner lid and clean air assembly.



9. Remove air filter and discard.

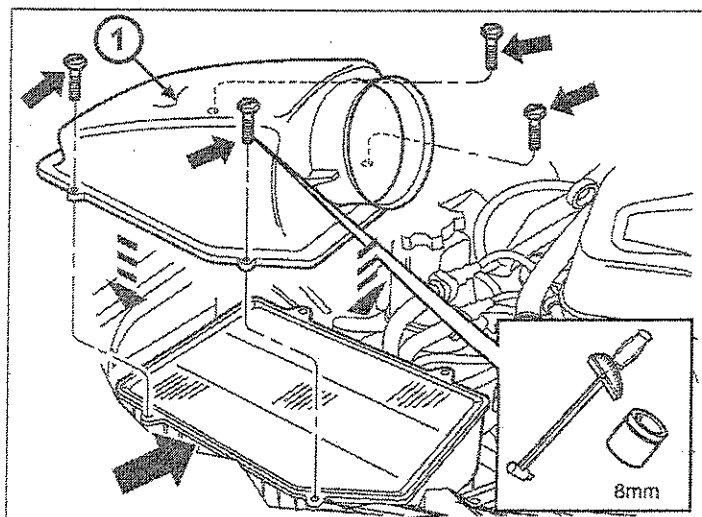


10. Install new air filter (3) in air box.



11. Install air cleaner lid (1) onto air box housing, with the four M5 screws left from the removal.

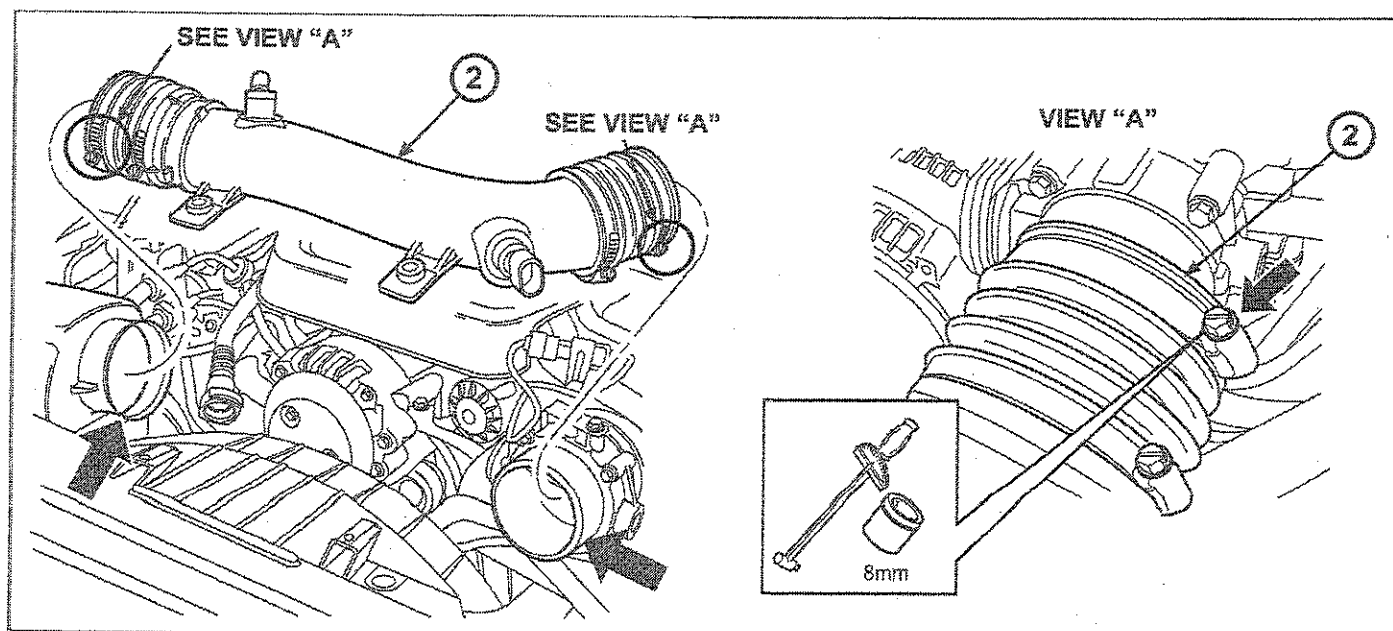
Use a 8mm socket and torque to 4 N.m. or (3ft.-lbs.).



12. Slide clean air duct assembly (2) over upper air box inlet opening and slide opposite end onto throttle body opening.

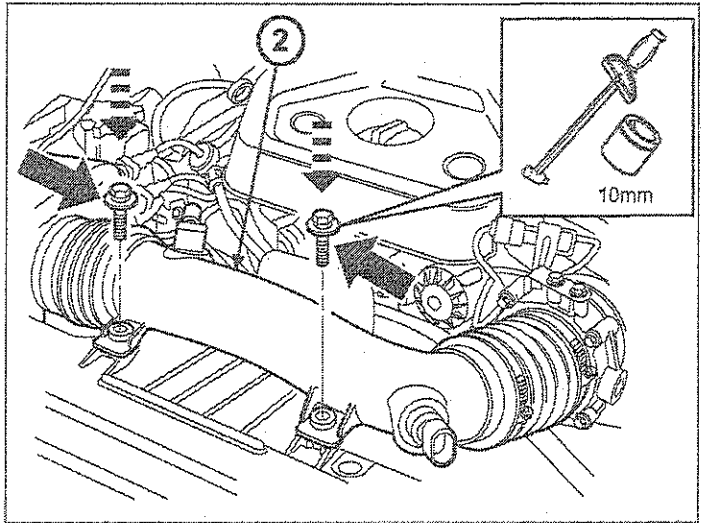
NOTE: Ensure that the hose clamp screws are positioned to allow tightening of each easily. See "View A".

Tighten hose clamps with an 8mm socket to 5 N.m. or (3.7 ft.-lbs.).

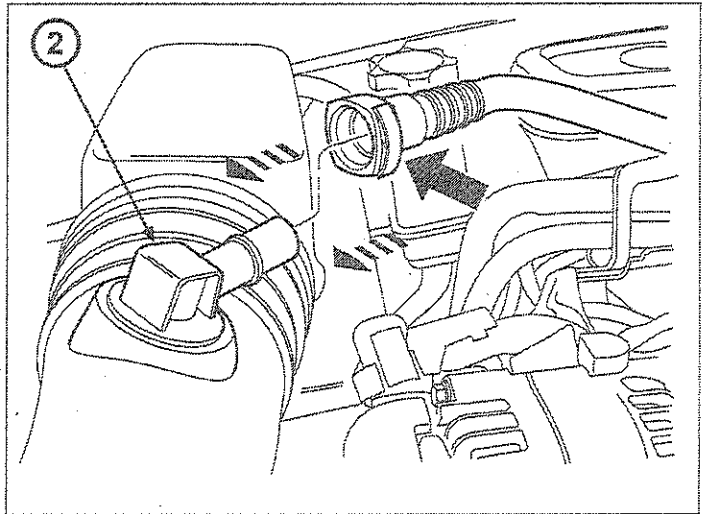


13. Install the two saved M6 clean air duct assembly mounting bolts to the new clean air duct assembly (2), using a 10mm socket.

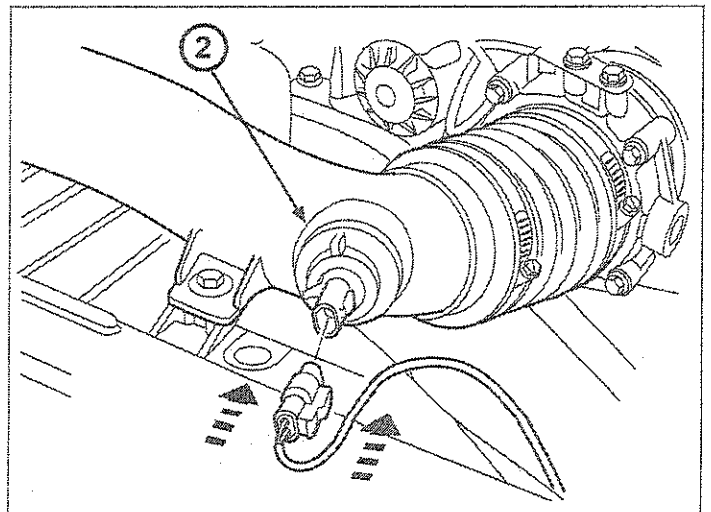
Tighten bolts to 2.8 N.m. or (2.1 ft-lbs.).



14. Reconnect MUA fitting by pushing on it until it snaps on clean air duct assembly (2).

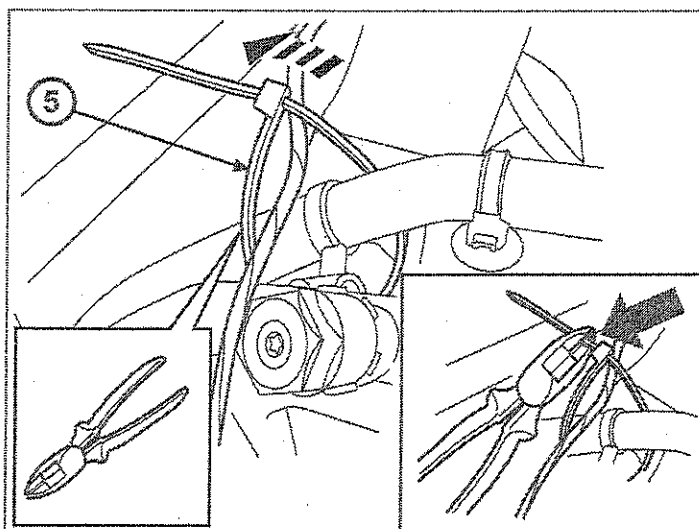


15. Reconnect the speed density sensor wiring onto the sensor on the clean air duct assembly (2).

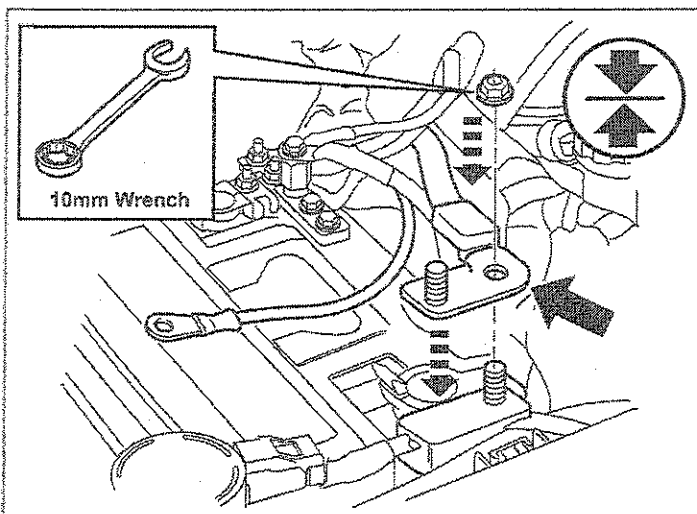


16. Using wire tie (5), tie down speed density sensor wire to A/C hoses. Ensure wire tie has a "loose" fitting around A/C hoses.

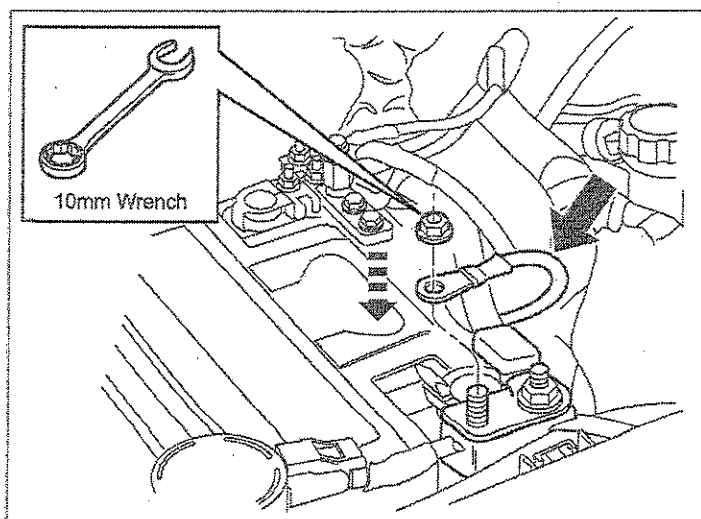
Cut excess wire tie end with wire cutters and discard.



17. Install the main "-" negative cable and nut, with a 10mm wrench.



18. Install the nut and the supplemental battery cable with a 10mm wrench.



OPTIONAL OUTER HOOD BEZEL & BLOCKER (4)

WARNING! Thoroughly read "Cut Out Instructions" before starting procedure.

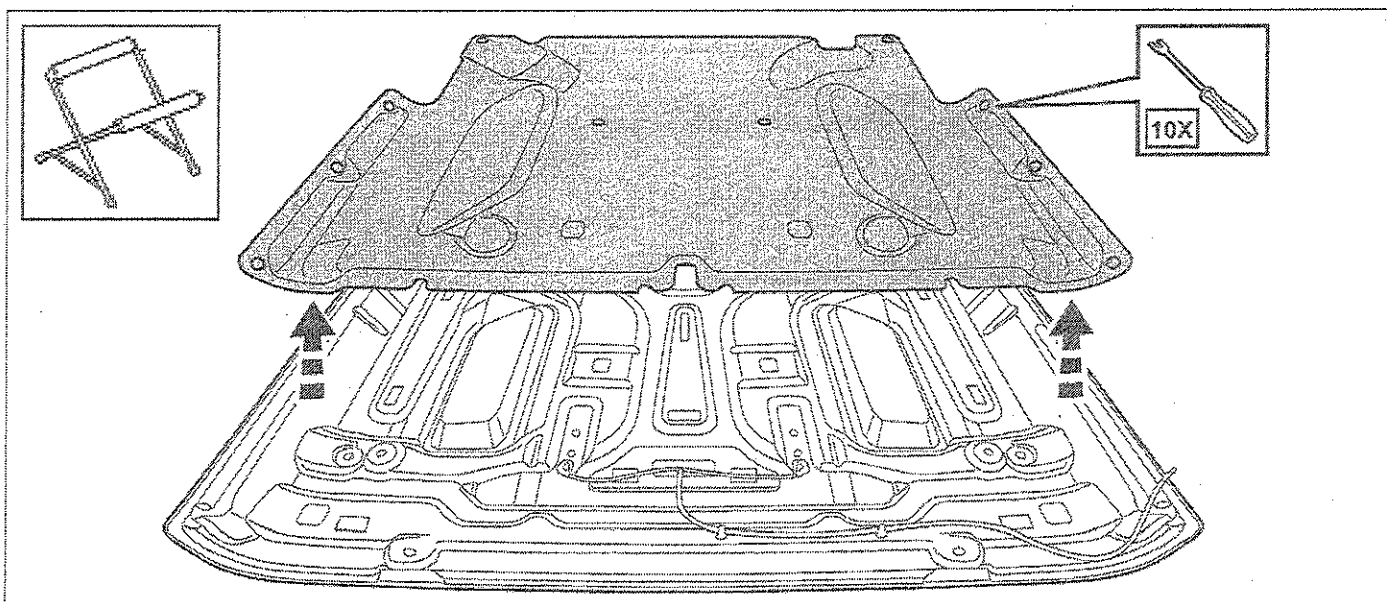
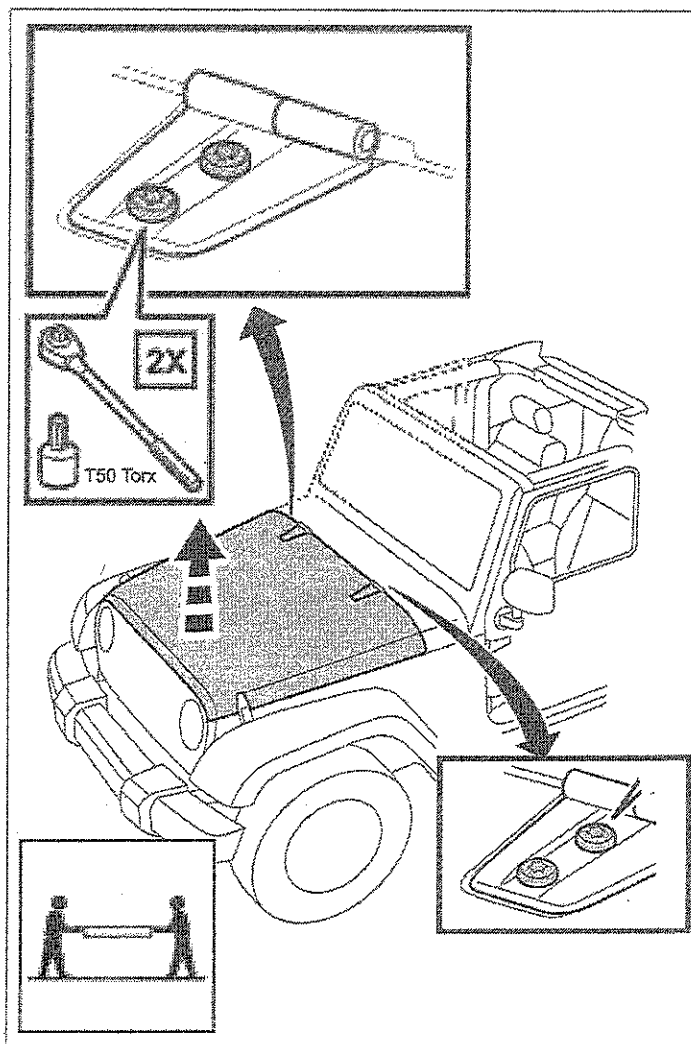
WARNING! Hood removal requires two people.

NOTE: Disconnect washer fluid hose before hood removal.

1. Remove Hood.

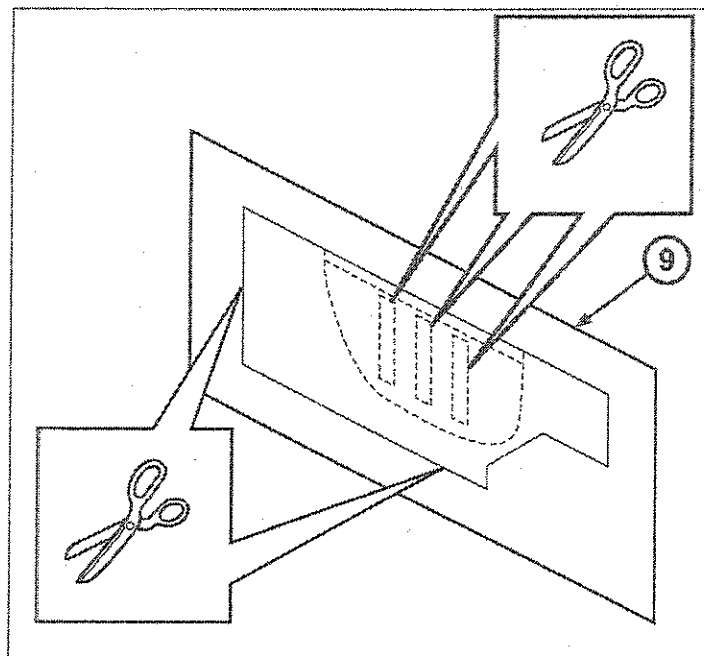
NOTE: Use care not to break push pins, they will be used for installation of hood insulator.

2. Place hood upside down on a clean, protected work surface. Remove all ten push pins on hood insulator, save for reinstallation.



3. Trim out hood template (9) provided as shown.
(Outer perimeter only).

Cut out 3 vertical openings for tape also as shown.

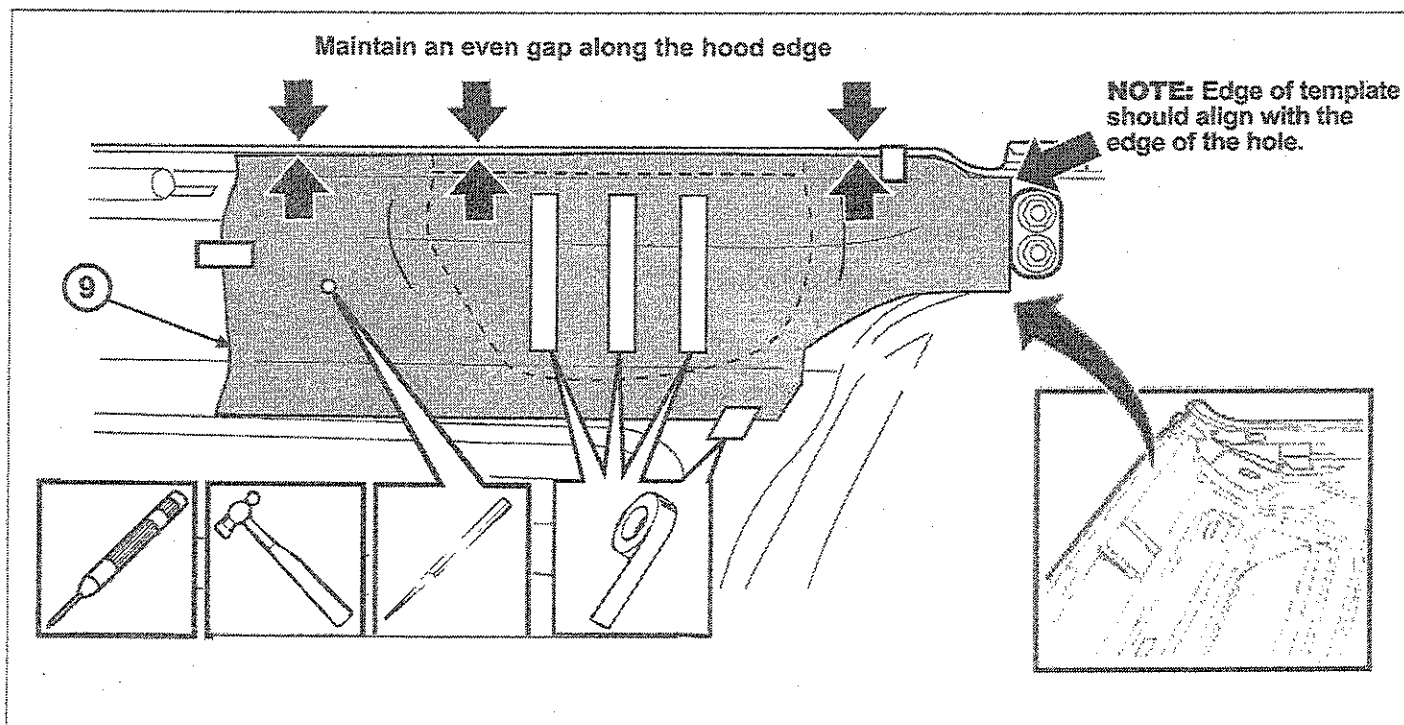


NOTE: Edge of template (9) should align with the edge of the hole.

NOTE: Maintain an even gap along the hood edge.

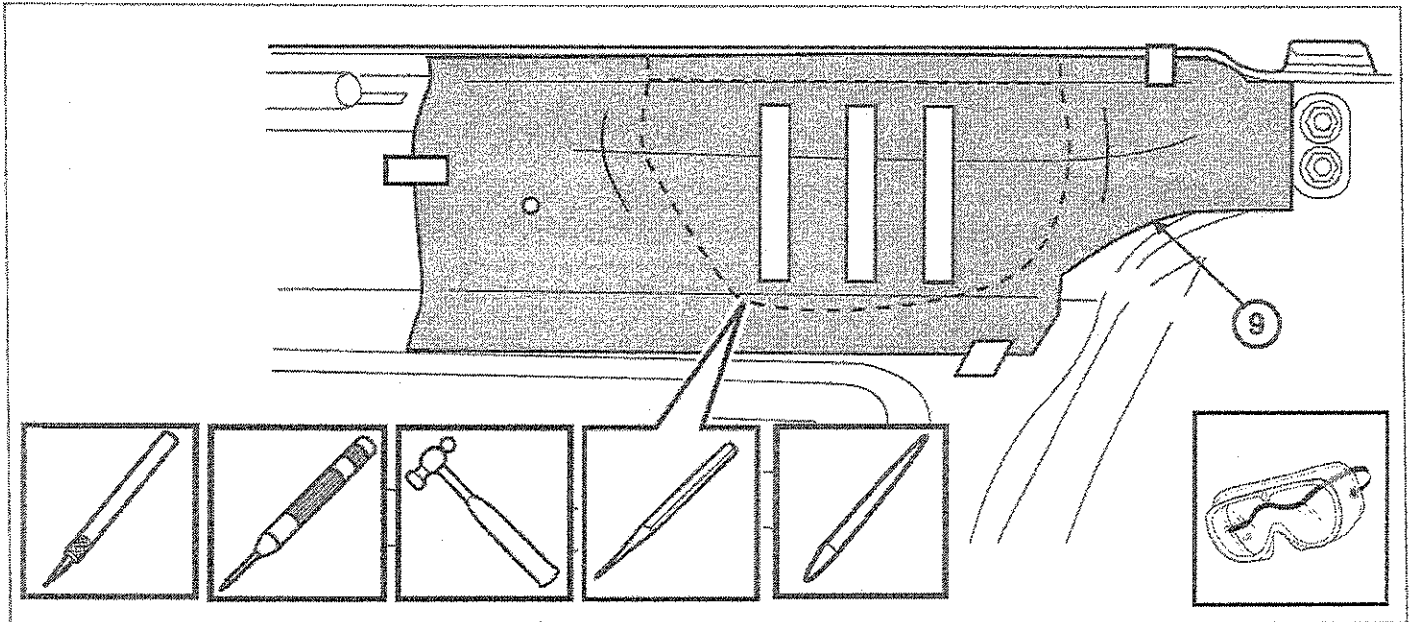
4. Position hood template (9) on front passenger side corner of hood and secure with masking tape.

Use a hole punch through the locator hole of template (9) to properly align. Tape template in place securely.



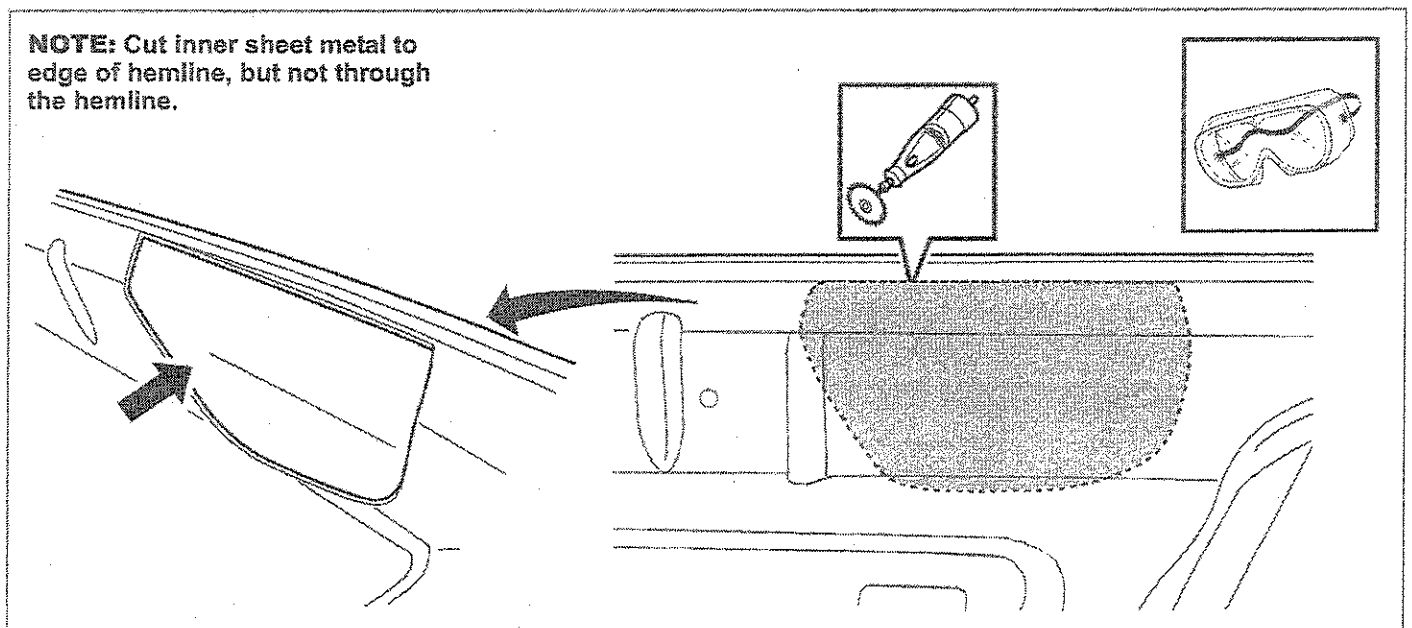
CAUTION! Care should be taken when punching holes into side of hood not to damage hood surface or sheet metal.

5. Cut or scribe with X-ACTO knife or, make punch marks approx 1/4" apart on template (9) and hood, to score cutting edge. Remove tape and template (9). Use a marker to outline punch holes. Punch edge marks also and mark for alignment.



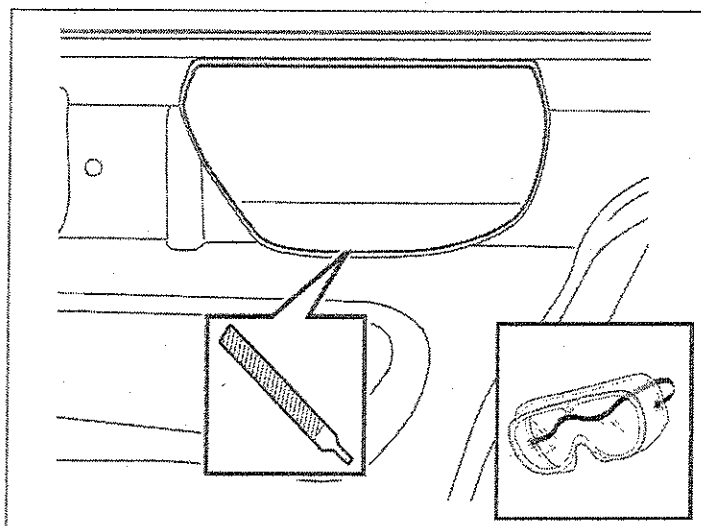
CAUTION! Cut sheet metal slowly and carefully along punch marks not to damage outer hood sheet metal. Use safety glasses when drilling and cutting metal.

6. Using a metal saw, cut around punch marks for the inner hood support bracket placement. Cut inner sheet metal to edge of hemline, but not through the hemline.

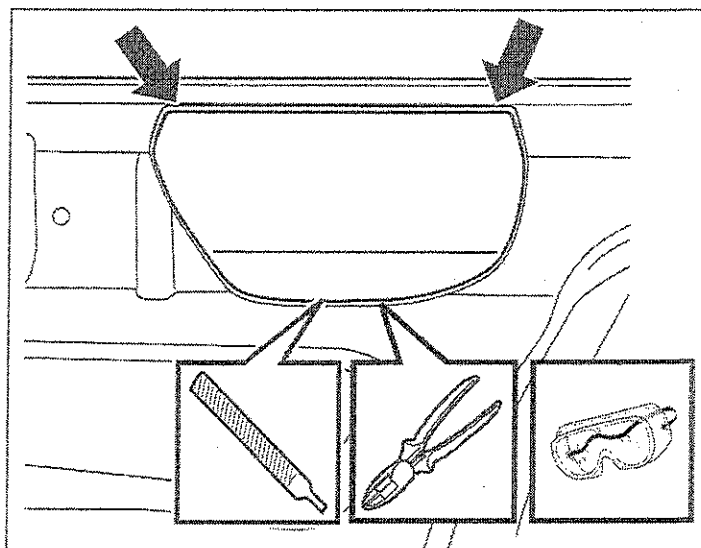


7. Remove cut metal section and smooth all edges with a file.

Remove any excess sealer material that could interfere with bracket.

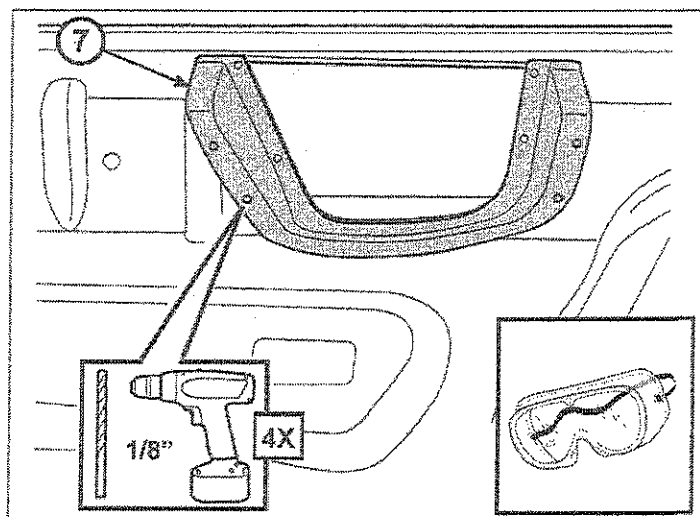


8. If necessary; remove excess material at these areas to allow hood support bracket (7) clearance. Use a file or wire cutters.



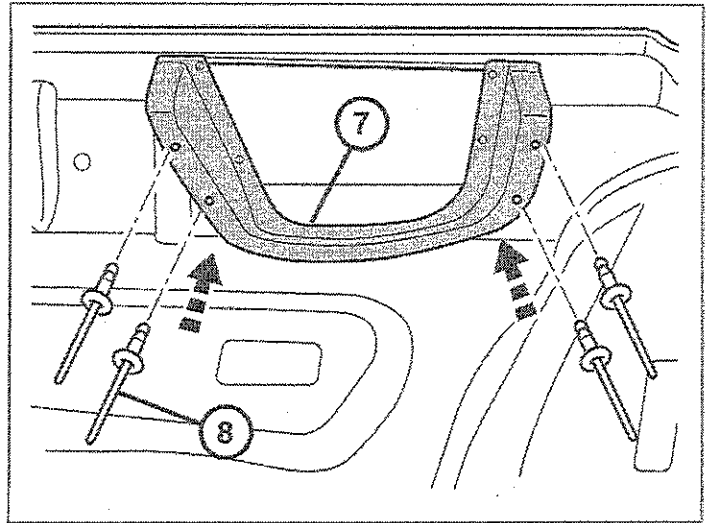
9. Place hood support bracket (7), and align the fit with the contour and alignment marks on the inner hood.

Use tape to hold in place as needed. Use the hood support bracket (7), as a guide and drill the four 1/8" holes for the rivets (8).

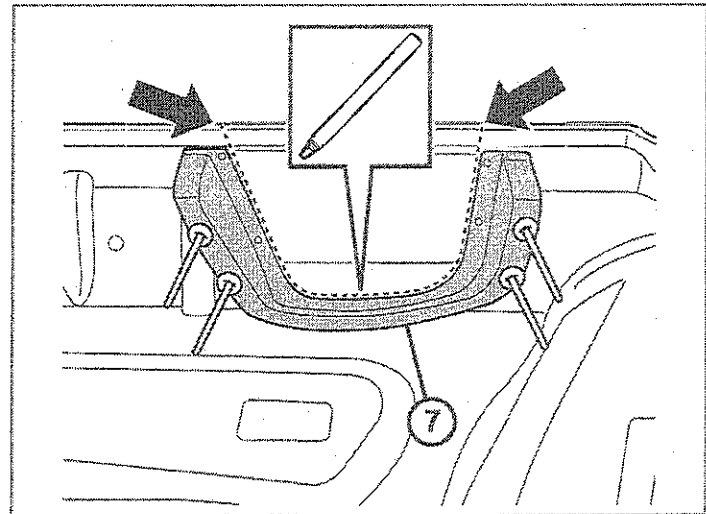


NOTE: Add tape to hood support bracket (7), to keep in place after aligning with the four rivets (8).

10. Place hood support bracket (7) in position and align with rivets (8). Do not fully install rivets, use only to hold hood bezel in place for outer hood cut mark up.



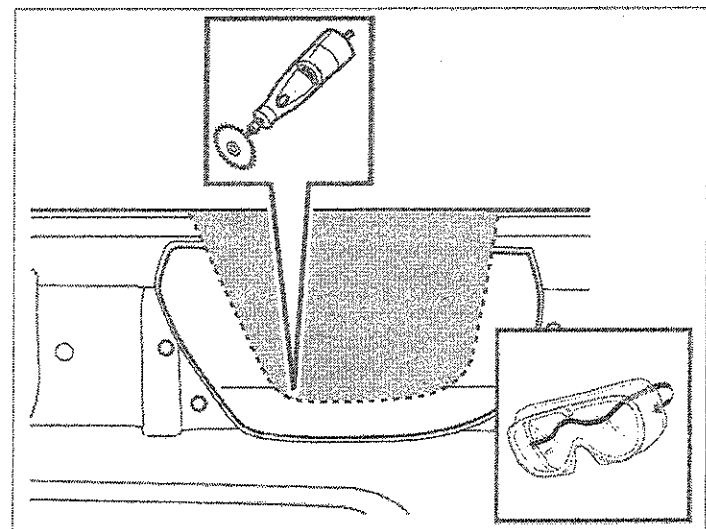
11. With hood support bracket (7) in place, mark inside cut area with a grease pencil. Extend lines with a straight edge to edge of hood sheet metal.



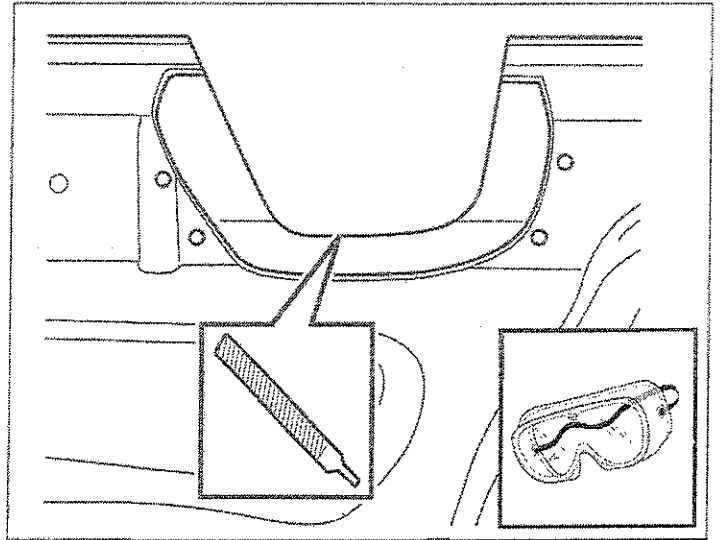
CAUTION! Cut sheet metal slowly and carefully along cut line not to damage hood surface or sheet metal.

Use safety glasses when cutting metal.

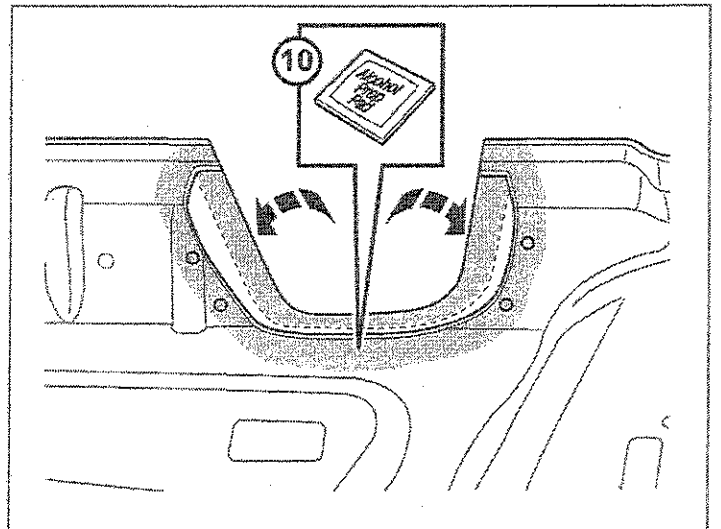
12. Remove hood bracket and rivets. Using a metal saw, carefully cut out sheet metal.



13. Remove cut metal and smooth all edges with a file.

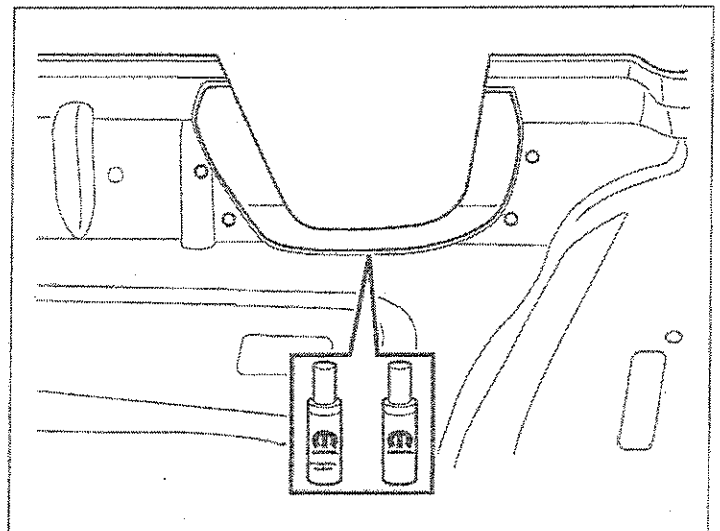


14. Clean inner and outer surfaces thoroughly with alcohol wipes (10).

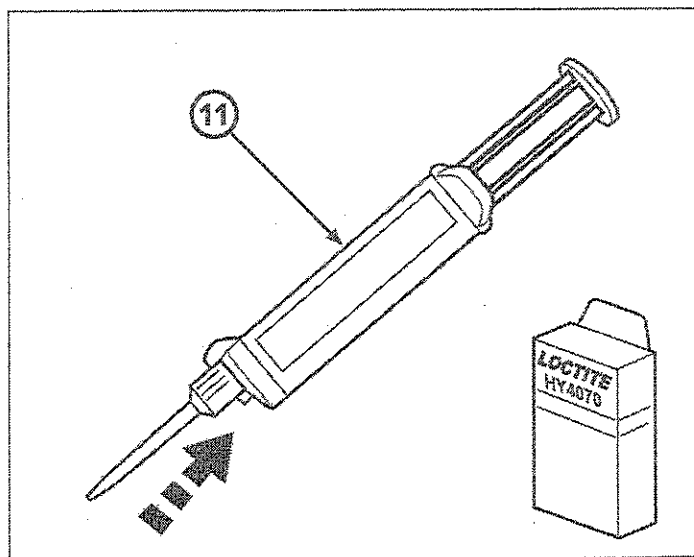


15. Apply rust preventer and matching body color paint to bare metal edges and holes.

Allow to dry before proceeding to the next step.



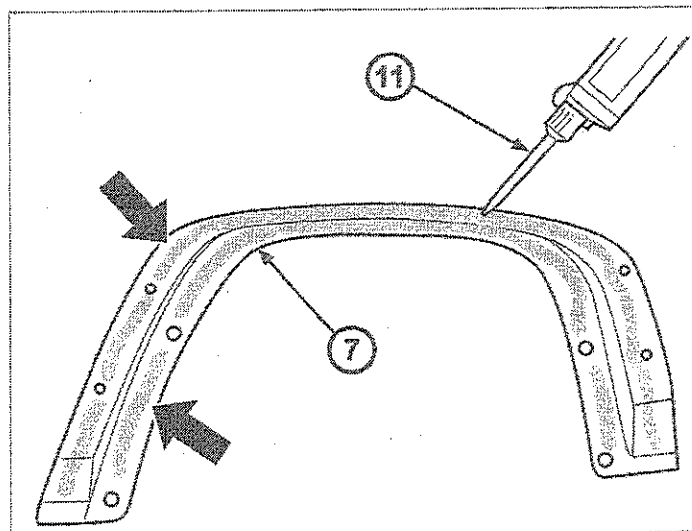
16. Attach nozzle to Loctite epoxy (11).



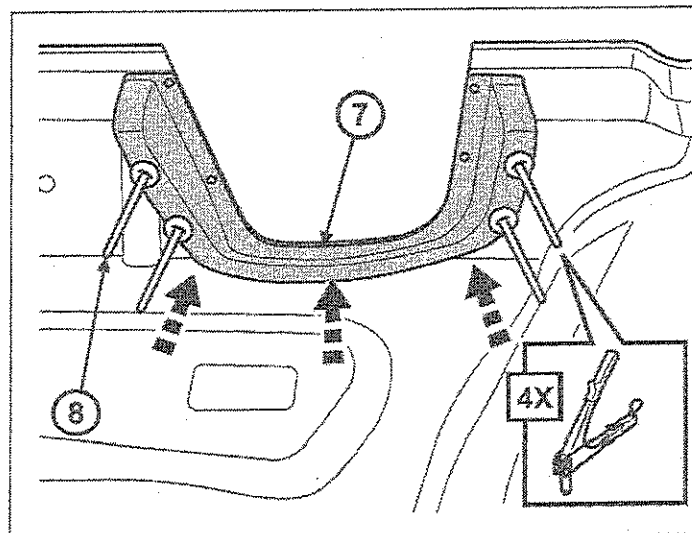
NOTE: Before applying Loctite epoxy remember that hood support bracket (7) will need to be pressed and clamped into place on the hood once applied. Drying time for the epoxy is short.

NOTE: Work time is 1 minute until epoxy sets.

17. Apply Loctite epoxy (11) liberally to inside hood support bracket edge (7) on both levels. (Surfaces that contact inner & outer hood).

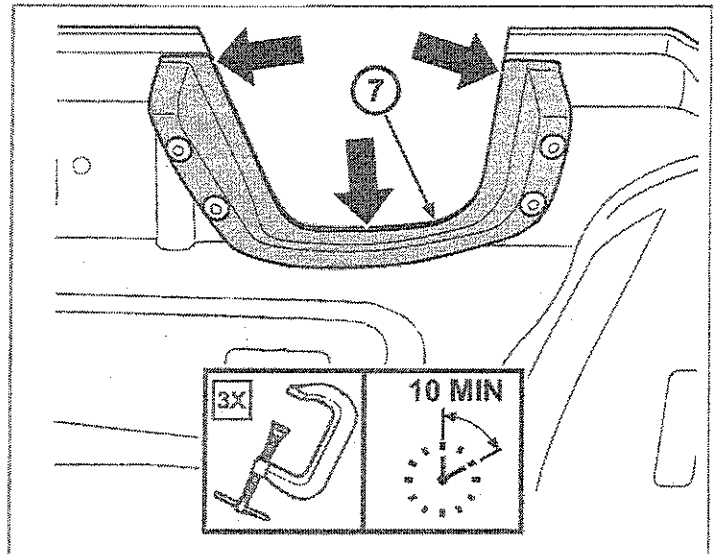


18. Quickly press hood support bracket (7) into place. Install rivets (8) and fasten with rivet tool.



NOTE: Ensure you place a towel or other protective material over hood finish before clamping down the hood support bracket (7).

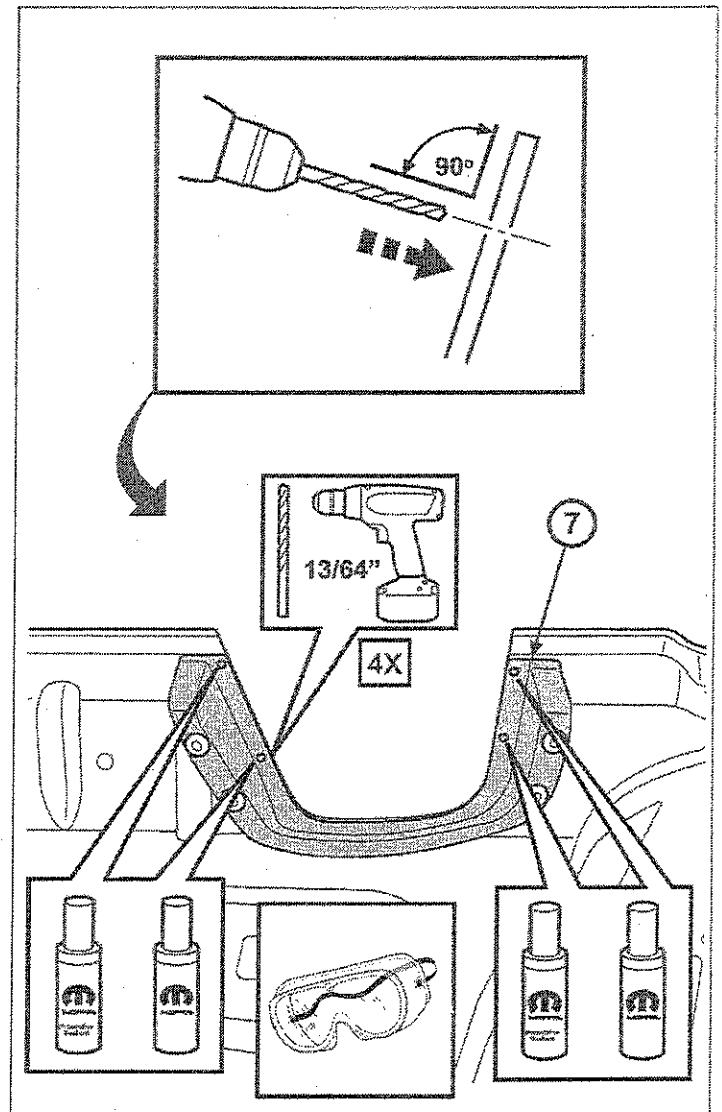
19. Clamp hood support bracket (7) to hood for 10 minutes, in the 3 locations shown.



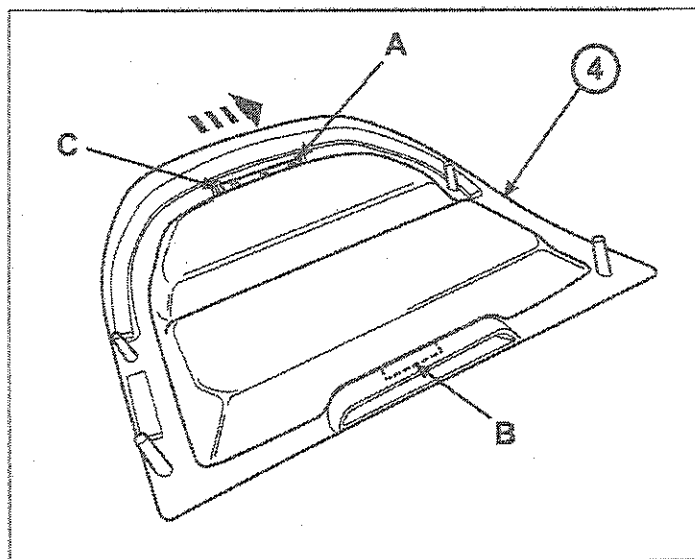
NOTE: Keep drill bit at a "right angle" to the sheet metal, 90 degrees, not to damage the outer surface.

20. Drill out the four bracket holes to 13/64" inch, four places. (Not rivet holes).

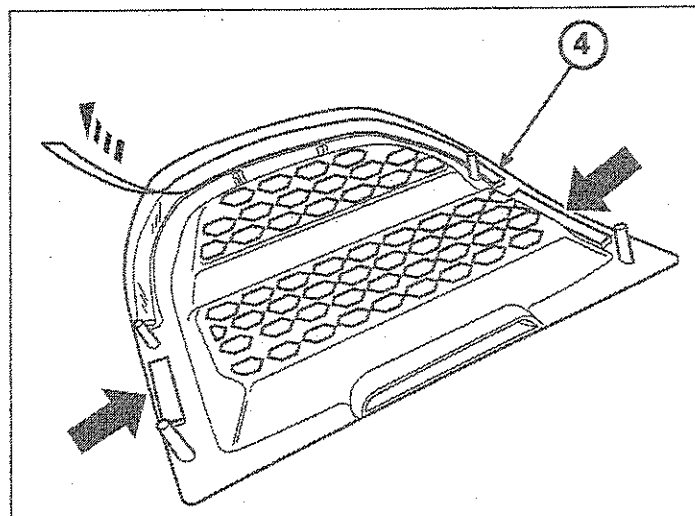
Apply rust preventer & body color to holes.



21. Remove inside cover/blocker of hood bezel (4) at points A, B, and C, then slide off. Save for future storage.



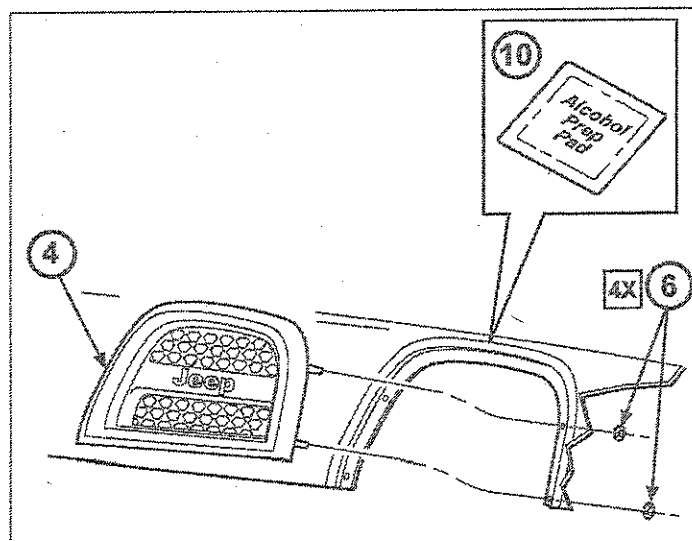
22. Remove the red adhesive backing protection strip off the back of the hood bezel (4) and discard.



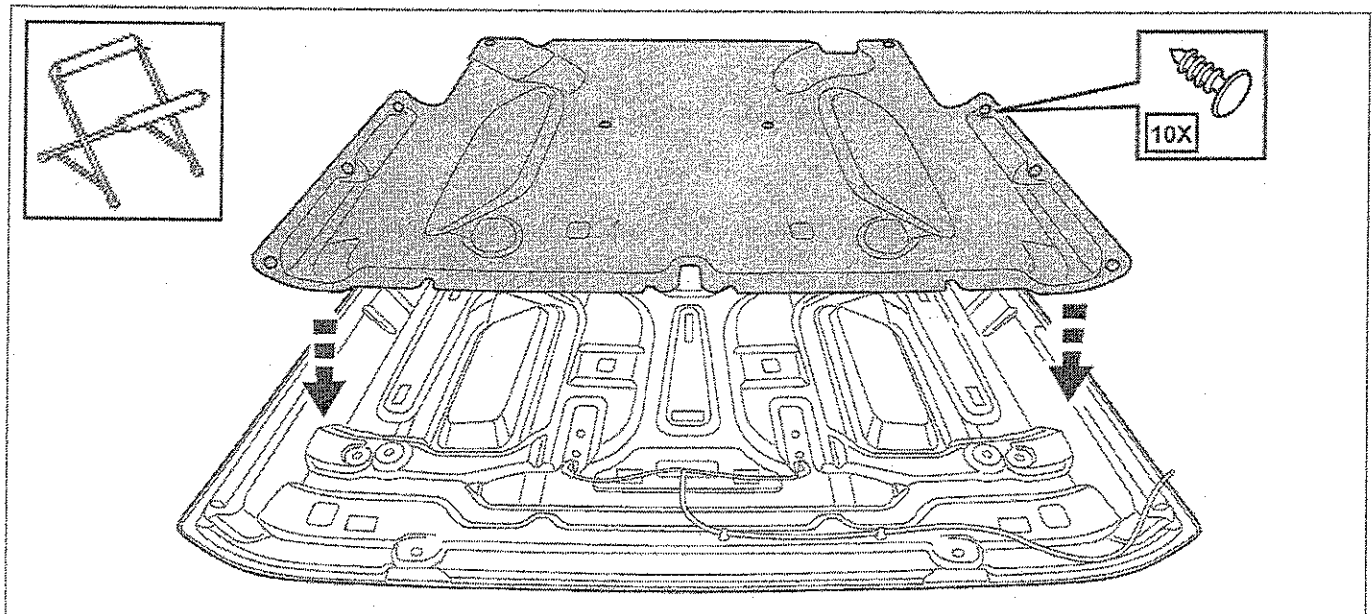
NOTE: Clean outer surface of the hood with alcohol pad (10) before installing bezel.

23. Attach hood bezel (4) to outside of hood edge, aligning locating pins through hood opening. Press edges of hood bezel (4) so that adhesive tape secures properly.

Fasten hood bezel (4) with four push nuts (6), under hood and secure to a tight fit.



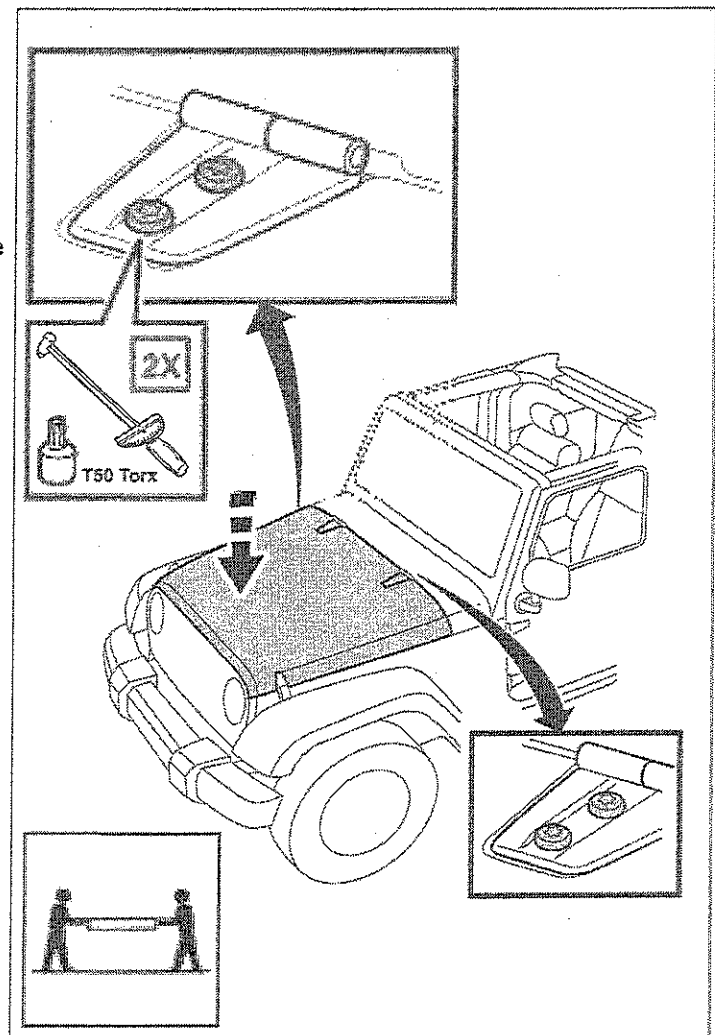
24. With hood upside down on a clean, protected work surface. Reinstall the hood liner with all 10 push pins.



WARNING! Hood installation requires two people.

NOTE: Reconnect washer fluid hose after hood is installed.

25. Install hood and the 4 hood hinge bolts. Torque hinge bolts to 17.6 N.m (13 Ft-Lbs.).



!! WARNING !!

The hood bezel provided with the cold air kit has been designed to provide clean cool air during normal daily driving. However, it does open up a direct passage to the engine induction system. A block out plate has been provided in the kit. Please use common sense and install the block out plate during severe weather, water fording, intense cleaning or other events that might introduce excessive water or debris into the air induction system that may lead to engine damage.