

PARTS LIST:

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|---------------------------------|---|
| 1 - INTERCOOLER | 2 - NUTSERTS w/ TOOL |
| 1 - HORN BRACKET | 2 - INTERCOOLER MOUNTS w/ISOLATORS |
| 2 - SILICONE INTERCOOLER HOSE | 1 - BILLET DISCHARGE PIPE TO HOSE ADAPTER |
| 3- CONSTANT TENSION HOSE CLAMPS | 4 - BLACK VINYL CAPS / 2-LG, 2-SM |

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|-----------------------------|
| 2 - CABLE TIES |
| 4 - M6 SERRATED FLANGE NUTS |
| 2 - M6 X 20MM BOLT |

TOOLS REQUIRED:

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|-----------------|---------------------------|----------------------|
| 1 - T25 TORX | 1 - T30 TORX | 1 - ¼" DRILL BIT |
| 1 - 14MM WRENCH | 1 - FLAT HEAD SCREWDRIVER | 1 - 25/64" DRILL BIT |
| 1 - WRATCHET | 1 - 10mm SOCKET | |
| 1 - 13MM WRENCH | 1 - 7mm NUT DRIVER | |

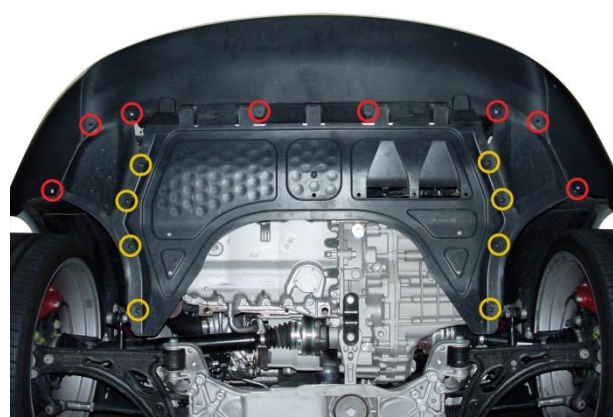
1. Park car on a flat, level surface capable of supporting the vehicle's weight on a jack and jack stands. Using the manufacturer's recommended lifting point(s), raise front of vehicle and support with jack stands. **NEVER WORK ON A VEHICLE SUPPORTED ONLY WITH A JACK!**



2. **FRONT BUMPER REMOVAL:** Open the engine hood and remove the (4) T25 Torx from the upper edge of the front grill, then while pushing down on top of bumper cap pull-out bottom of grill to release from locking taps, start on one end and work across.



3. Remove the (2) T25 Torx screws at the top of the front bumper. Remove the (5) T25 Torx screws from each front leading edge wheel arch lining.



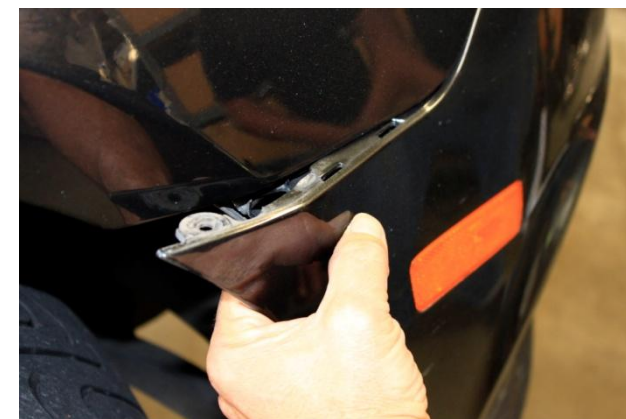
4. Remove the (8) T25 Torx screws from the bottom edge of front bumper (marked in red) and (8) T20 Torx screws from front lower engine splash pan (marked in yellow).



5. Remove driver side factory intercooler hose.



6. Remove Passenger side intercooler hose.



7. Carefully pull-out bumper cap from side of front fender.



8. Before pulling front bumper completely off, disconnect both side marker lamp connections and both fog light or running light connections.



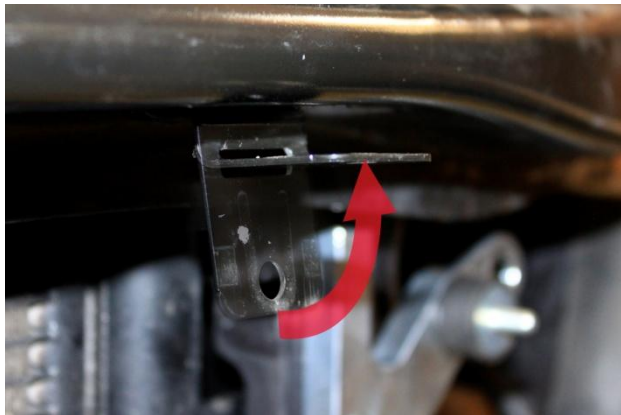
9. If equipped, disconnect headlight washer hose connection on the passenger side. **NOTE:** Cap or plug washer hose to prevent fluid loss from reservoir. Remove bumper cover and Styrofoam crash support.



10. Unclip and remove the (2) radiator air deflectors.



11. Remove plastic outside air temp mount from steel bumper then remove sensor from plastic mount.



12. Bend metal temp sensor bracket up horizontally.

13. **NOTE:** If also installing *NEUSPEED* factory intercooler delete kit follow those instructions now, after installing kit then resume here.



14. Using a 13mm wrench, unbolt right-side horn from its bracket and remount to the top-side, as pictured.



15. Using a 13mm wrench, unbolt left-side horn from its bracket. Remove OE bracket and using supplied bracket, remount horn toward inside of frame rail as pictured.



16. Install and tighten rubber isolators into billet intercooler mounting brackets.



17. Attach both left and right side intercooler mounts into existing square holes in radiator core support, then lock down, now drill 1/4" thru core.



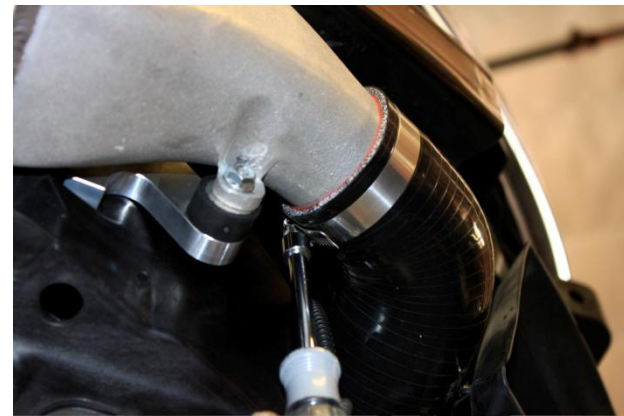
18. Remove mounts and drill hole out to 25/64". Install Nutsert using supplied setting tool (see separate tool instructions).



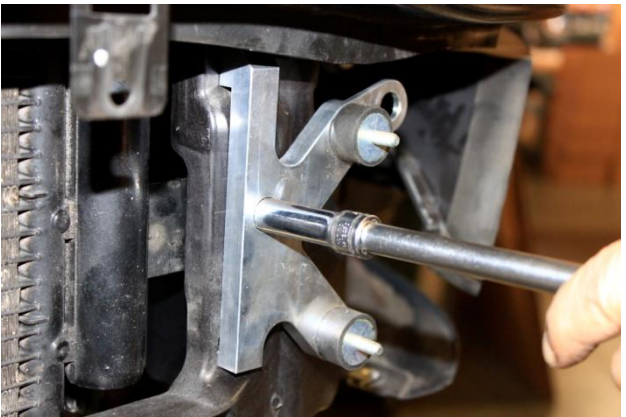
19. Hold body from turning with 14mm wrench then push and turn setting bolt with 10mm socket until Nutsert crimps firmly in hole. Remove tool.



21. Install outside air temp sensor into hole in billet intercooler mount.



25. Carefully remove seal from passenger side factory intercooler hose.



20. Remount billet brackets, install and tighten with supplied M6x20mm bolts using 10mm socket.



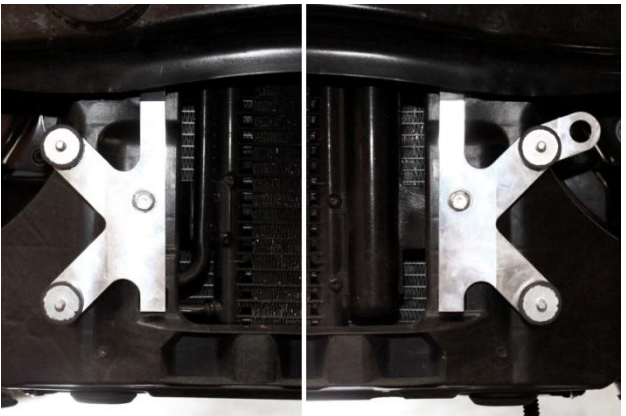
22. Mount intercooler core to vehicle using the supplied (4) 6mm hex flange nuts.



24. Install and tighten supplied driver side intercooler hose and clamps as pictured. **NOTE:** Clamp screw goes to back side of intercooler.



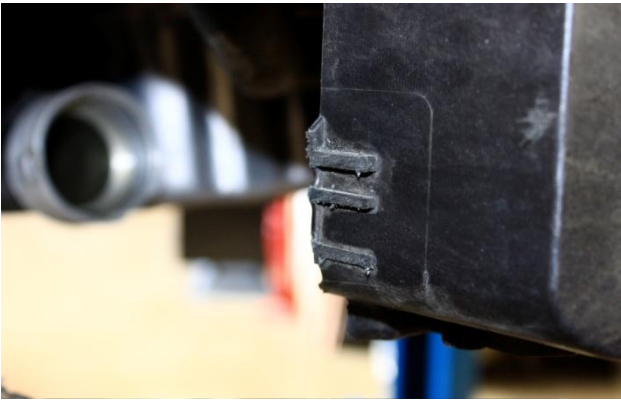
26. Install factory seal on NEUSPEED billet hose coupling then lightly oil.



23. **GOLF R ONLY:** Cut off inside corner from plastic air duct for transmission.



27. Install NEUSPEED billet hose coupling into turbo discharge pipe. Make sure clip locks onto billet adapter.



28. Cut off non-used wire loom support on passenger side lower radiator core support.



29. Install and tighten supplied passenger side silicone intercooler hose and clamps as pictured. **NOTE:** Clamp screw goes toward back side of intercooler.



30. Using supplied cable ties, install black caps on inlet and outlet side of original intercooler.
NOTE: Small caps for Golf R. Large caps for GTI.

31. Double-check tightness of all connections and make sure there is adequate clearance for all components. Re-install bumper in reverse of disassembly.

NOTE: Lower engine splash pan; forward most screw on passenger side either cut down screw length or do not re-install screw.

NOTE: Re-check tightness of all hose clamps after 2-3 weeks.

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