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# Installation Instructions

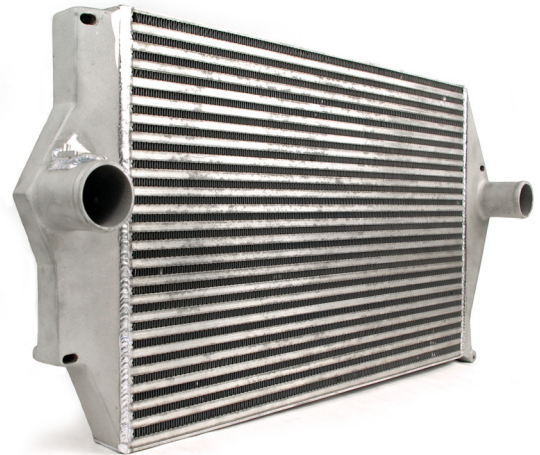


## ipd Intercooler

S60 5cyl turbo 2003-2009

V70/XC70 5cyl turbo 2003-2007

ipd #114813



## SUGGESTED TOOLS

- common hand tools
- car lift recommended

Note: While it is possible to perform this installation in your driveway at home, it is strongly recommended that you work with a vehicle lift. The front of the car will need to be several feet off the ground to facilitate removal and installation of the intercooler with minimal fin damage.

## SAFETY WARNINGS



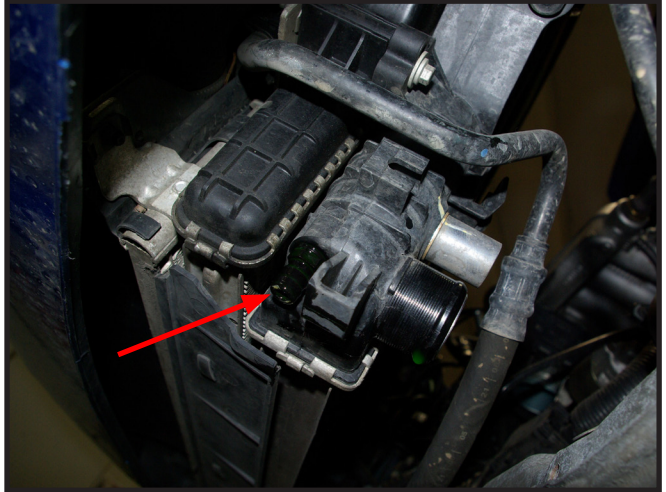
- Always support the vehicle with jack stands before working underneath
- Use only the parts supplied by ipd to install this kit
- Check ALL the fasteners for tightness before and after road testing the vehicle
- Do not use air impact wrench when re-installing bolts as stripped threads may result

## REMOVAL

- 1 Remove cold air pipes and air box for extra working room.
- 2 Remove the over the engine charge pipe.
- 3 Remove the air guide under the core support/front bumper.

## REMOVAL

- 4 Remove the cap from the expansion tank then drain coolant from radiator. You can either drain coolant using "drain valve" or removing the lower radiator hose.



Arrow pointing at drain valve located on the drivers side of the radiator.

- 5 On "R" models, remove the auxiliary intercooler hoses from between the main and auxiliary coolers and disconnect the upper and lower radiator hoses.



- 6 Remove the charge pipe between the intercooler outlet and the throttle body. Also disconnect the intake air temperature sensor/boost pressure sensor at intercooler outlet.

# REMOVAL

- 7 Remove cooling fan assembly.



- 8 Unplug pressure sensor connector at bottom right on condenser to allow more movement without damaging the harness. Disconnect the transmission cooler lines where applicable.



- 9 Remove the bolts that fasten the auxiliary intercooler to the AC condenser. Leave the hoses connected to the condenser as it should not be necessary to evacuate the AC system for this job.



# REMOVAL

- 10 Remove the two small bolts at the top of the combined cooler assembly (fig1). Then the two main support bolts (at each end of the radiator) will need to be accessed from below (fig 2). The entire assembly should now be loose and you can lower the assembly down on the driver side (fig 3).

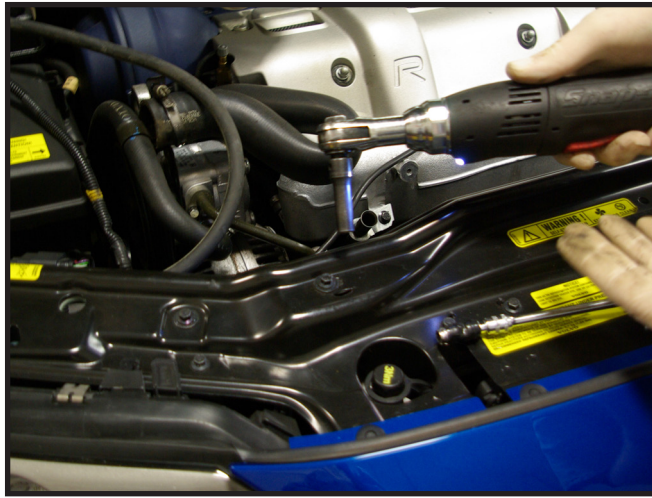


Fig 1

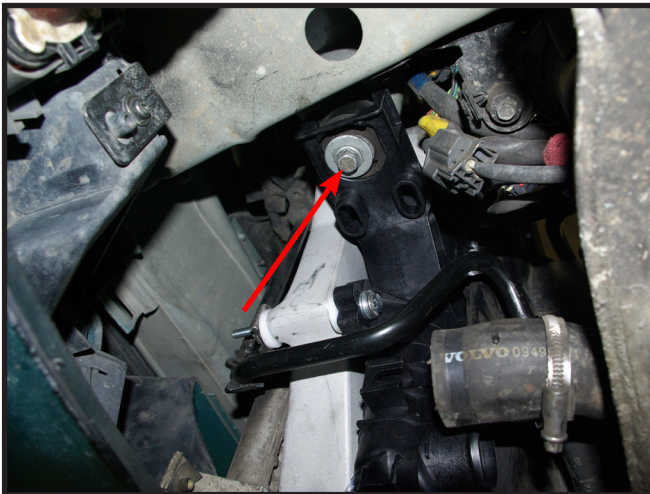


Fig 2



Fig 3

- 11 Remove the four bolts that hold the combined cooler assembly together and you can now remove the intercooler and radiator from the car, leaving the condenser in place.

# REMOVAL

- 12 On "R" models, remove auxiliary intercooler.



# INSTALLATION

- 13 Reassemble the combined cooler assembly as stock but using the new intercooler, longer bolts and included spacers (fig 1). This step is much easier when you have a extra set of hands. We recommend this part being a two-man Job (fig 2). On each bolt there should be a thick spacer between the condenser and intercooler and a thin spacer between the intercooler and radiator (fig 3).



Fig 1

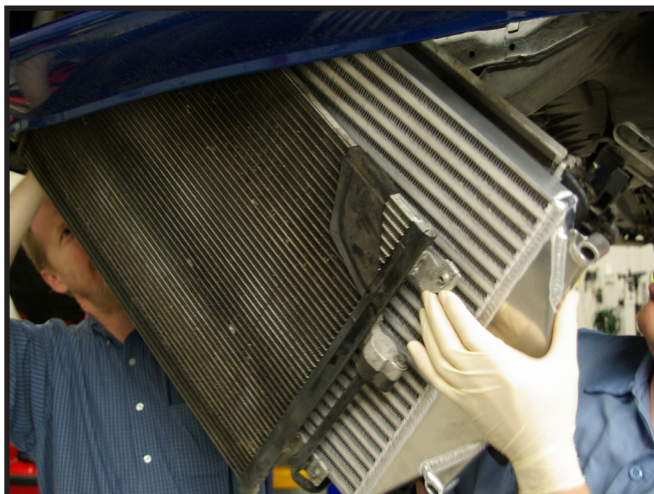


Fig 2

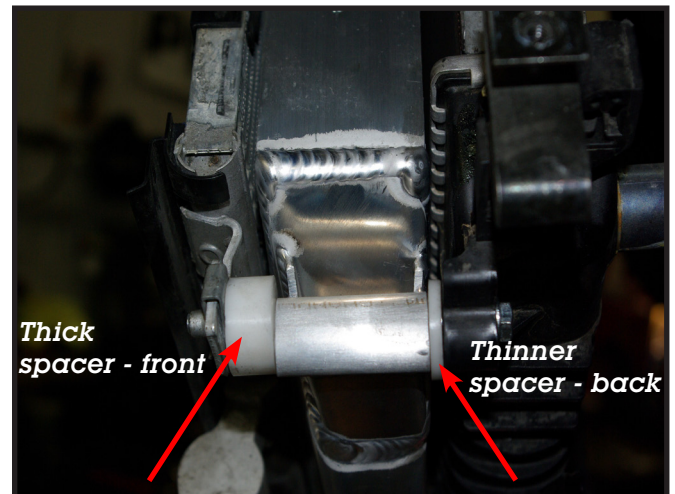


Fig 3

# REMOVAL

- 14 The remainder of the install is a reverse of the removal procedure.

Note: Remember to refill coolant fluids before starting vehicle. Refer to owner's manual for specifications.

# WARRANTY

## ***One Year Limited Warranty***

ipd warrants to the original purchaser that the parts manufactured and/or sold by ipd (the Product) is free from defects in material and workmanship under normal use. ipd warrants that the Product will perform substantially in accordance with the specifications set forth in the documentation provided with it. The above express warranties are made for a period of the lesser of 12,000 miles or 12 months from the date the Product is installed in your vehicle.

Any improper use, operation beyond capacity, substitution of parts not approved by ipd in writing, any alteration or repair by others, or any removal, defacing or altering of the identification shall void this warranty. There is no warranty on high-performance or race related parts due to the nature of usage.

The purchaser shall notify ipd at 1-800-444-6473 of any defect within the warranty period no later than thirty (30) days after purchaser discovers the defect. Should any failure to conform to this warranty appear within the warranty period, ipd shall, on notification, correct the nonconformity at its option, either by repairing any defective part, or by making available, FOB ipd's plant, a repaired or replacement part. The purchaser must insure any defective item being returned because ipd does not assume risk of loss or damage while in transit. No payment or reimbursement shall be made for installation, removal, transportation or other charges. The remedies set forth in this instrument are exclusive, and the liability of ipd with respect to any sale shall not exceed the price of the product on which the liability is based.

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