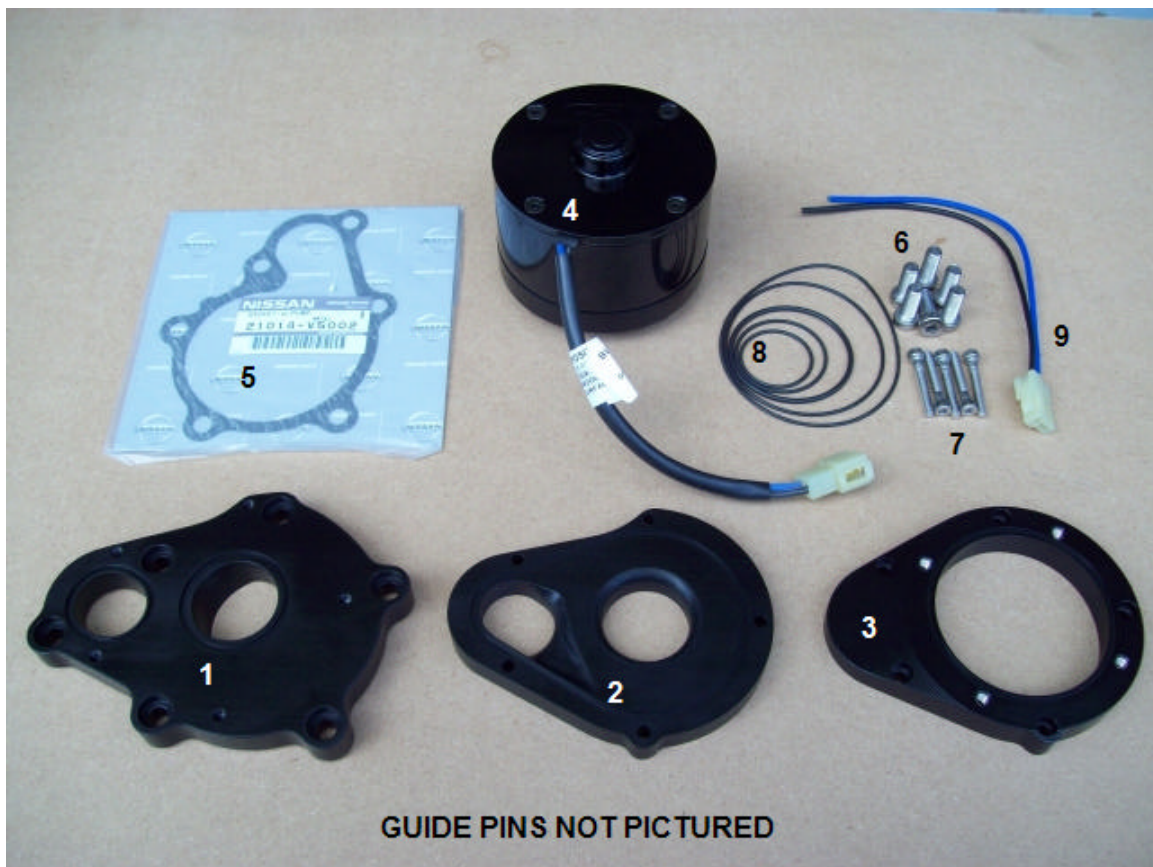


BDE VG30DE and DETT Electric Water Pump

9/1/2009

Parts List

#	Qty	
1.	1	Block adapter plate
2.	1	Mid adapter plate
3.	1	Top adapter plate
4.	1	BDE modified CSR pump motor assembly
5.	1	Nissan water pump gasket
6.	6	SS 8mm allen bolts
7.	5	SS 10-24 allen bolts
8.	1	O-ring kit
9.	1	wire harness pigtail
10.	2	10-24 guide pins



Tools Required

5mm allen wrench or socket
3/8" drive ratchet
6" long 3/8" extension
5/32" allen wrench
RTV silicone (optional)

First and most importantly, apply oil or grease to all bolt threads and under bolt heads prior to installing.

Tip

The hardest part of this installation is keeping the o-rings in their grooves so they don't get pinched when the bolts are tightened – to help hold o-rings in place, coat them with Vaseline.

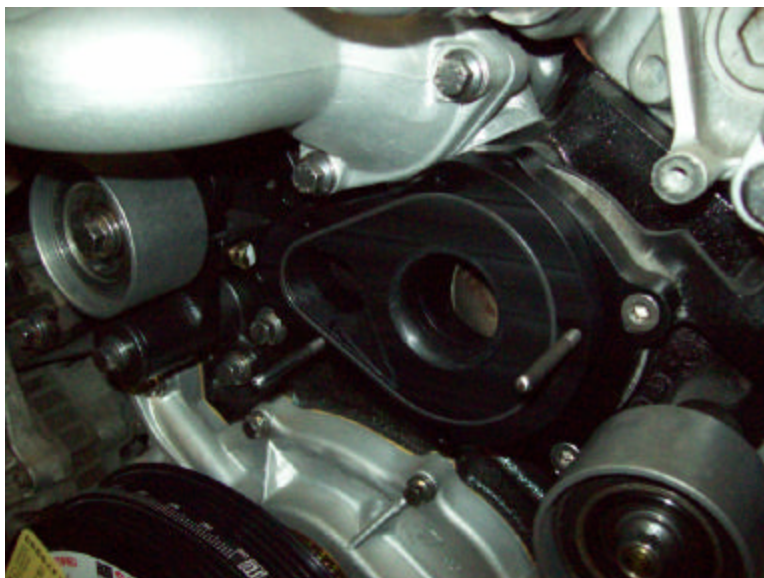
Block Adapter Plate

Install the thick o-ring into the groove on the back of the engine block adapter plate. This o-ring is used to prevent the high pressure side from flowing back into the inlet. Use the provided Nissan water pump gasket between the block adapter plate and the engine, you can use a small amount of RTV silicone to help hold it in its place. Install all 8mm allen head bolts and snug them only after all are fully threaded into their holes. Torque these bolts to approximately 10 ft-lbs (13 N-m).



Mid Adapter Plate

Thread the supplied guide pins into the block adapter plate (see pic), these will help hold the everything in place until you can get several bolts snugged. Install the inlet and outlet o-rings onto the block adapter plate and then install the mid adapter plate.



Top Adapter Plate

Install the o-ring onto the mid adapter plate and then mount the top adapter plate. Always check to verify the o-rings have not slipped out of their grooves. Remember, you can use Vaseline to help hold the o-rings in place.

Thread two of the 10-24 allen bolts into place just tight enough to hold the plates together and then remove the guide pins. Install the remaining 10-24 allen bolts and tighten all to approximately 2 ft-lbs (2.7 N-m).



CSR Pump Motor

Install the top plate o-ring and then fit the CSR pump motor onto the assembly with the wiring pigtail oriented to the 3 o'clock position. Tighten the pump motor bolts to approximately 2 ft-lbs (2.7 N-m). It is recommended that you wire the pump with a 15 amp fuse.

