

INSTALLATION GUIDELINES

AAE NISSAN/INFINITI EHPS PUMP



REPLACING NISSAN/INFINITI EHPS PUMP WITH AAE REMANUFACTURED UNIT

EHPS SYSTEM DESCRIPTION

- The EHPS pump assembly consists of reservoir tank, power steering oil pump, electric motor, and power steering control module
- According to Nissan the EHPS pump is not serviceable and should be replaced as an assembly

AAE PART NUMBERS

There are two different styles of pumps. The easiest way to tell the difference is the shape of the reservoir near the reservoir cap. Also notice the position of the high-pressure port and the specified torque from Nissan:

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<p>* For specific application information, visit www.showmetheparts.com/crp</p>																												



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TIPS

- Disconnect negative battery cable before removing EHPS pump
- Completely flush system to remove any debris which may cause subsequent failure
- Only use genuine Nissan E-PSF (Electric Power Steering Fluid) or equivalent
 - Nissan/Infiniti part number for the fluid is 999MP-EPF00P
- When replacing the EHPS pumps listed above no programming is required
 - If the hydraulic power steering gear is also replaced then the steering angle sensor needs to be calibrated using Nissan Consult
 - The steering angle sensor is located behind the steering wheel (not part of the EHPS pump)
- After installation always bleed air from power steering system

TROUBLESHOOTING

There have been reports on several Nissan forums about pumps which make whining noise while operating. Even low mileage vehicles may exhibit that "issue". Keep in mind that the electro-hydraulic steering pump uses a high-rpm electric motor to provide hydraulic pressure to the power steering rack. These do not sound similar to traditional hydraulic power steering pumps.

According to Nissan: "Some normal operational sound may be heard from the front of the vehicle generated by the EHPS pump when the steering wheel is operated"

It may be difficult to determine if the noise is above normal but Nissan has issued TSBs (NTB13-017, NTB14-053, NTB16-023) which suggest checking several possible causes:

- Check fluid level with the ignition OFF and fluid temperature between 0 – 30°C (32 – 86°F)
- Make sure the right front hood ledge seal (passenger side) is installed correctly
- Make sure there is no binding on the EHPS pump mounting isolator
- Make sure the EHPS pump felt cover is installed correctly
- Make sure PS high pressure line and the A/C low pressure line are not touching each other
- Make sure the EHPS low pressure line is not touching the sub-frame near the front of the engine

Note:

When the steering wheel is operated repeatedly at low speed or turned to lock for a long period of time, the function of the EHPS pump becomes limited to prevent the system from overheating. The amount of assist may be reduced or removed but this is not a malfunction. Simply turn the engine off for a few minutes, so that the temperature of the pump can decrease and normal functionality should be restored.

For Electric Power Steering related questions contact AAE Tech Support Hotline at 1-800-654-7565 (Press 2 for EPS)

