

### THE IMPORTANCE OF FILTERING POWER STEERING SYSTEMS

Today's hydraulic power steering pumps are becoming lighter, smaller and more efficient. As a result, the tolerances in which these pumps operate are becoming tighter and tighter. These design changes make it more important than ever to filter the fluid in your power steering system. The Original Equipment Suppliers have recognized this need by incorporating mesh screens in their plastic molded reservoirs (Image 1). The downside to this innovation is the lack of bypass capability within the reservoir. Eventually, this reservoir screen becomes clogged with contamination restricting the flow of power steering fluid into the pump. This can lead to cavitation, noise, excessive heat and premature failure.

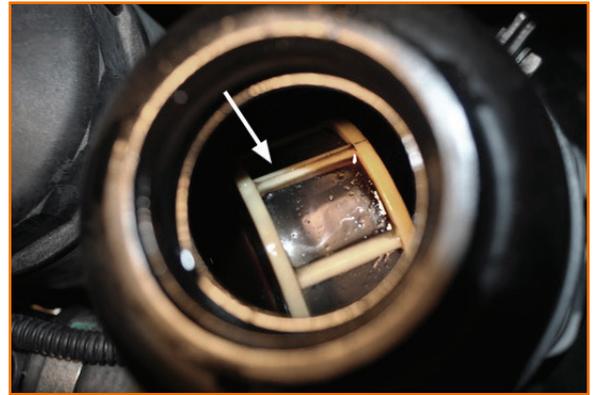


Image 1

Contamination is the number one cause of failure in a hydraulic system and the category has responded in two ways. First, a remote reservoir offering has been developed in order to supply the aftermarket. These remote reservoirs will cover many of the category's most problematic applications with a strong focus on Honda/Acura models (Image 2). On applications with little or no remote reservoir availability it is imperative the reservoir's mesh screen is inspected and cleaned before the replacement unit is installed. Secondly, install an inline power steering filter with any pump, rack & pinion or steering gear. This will capture any contamination present after a system flush (Image 3). This inline filter contains a paper filtering element, a powerful magnet and a bypass mechanism that will trap any harmful contamination and prevent damage to critical components without restricting fluid flow. Finally, this filter will prevent the mesh reservoir screen from becoming clogged in the future, ensuring system longevity and reducing customer comebacks.



Image 2



Image 3

### THE PERFECT POWER STEERING INSTALL

Reduce Returns With These Simple Steps...

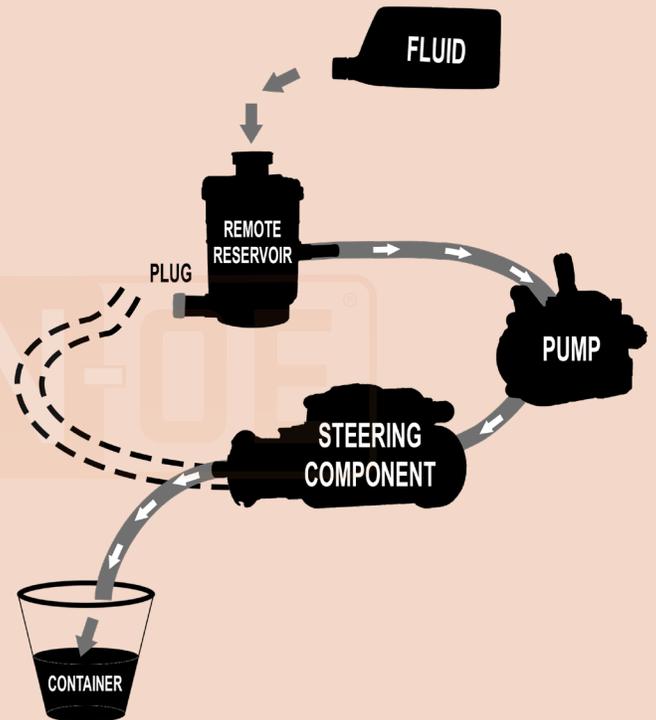
**1 REMOTE RESERVOIR**  
Replace reservoir or clean internal filters.



**2 FLUID**  
Use proper fluid.



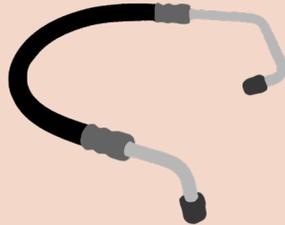
**3 FLUSH**  
Flush 4 quarts of OE recommended fluid to clean out debris.



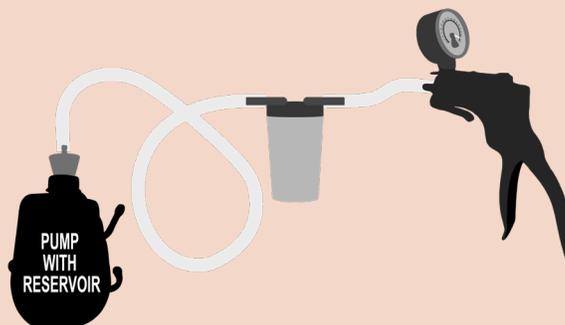
**4 IN-LINE FILTER**  
Install filter on the return line to catch contamination.



**5 HOSES**  
Replace hoses at 5 years or 100K miles.



**6 VACUUM BLEED**  
Remove air to ensure proper function and to prime the steering pump. (Particularly if the pump has a remote reservoir.)



*This is a quick reference guide only. For more detailed information on system operation and servicing, always refer to a technical service manual or approved information system.*