



**PK40JP2 - JEEP LJ**  
**POWER STEERING PUMP KIT**



INSTALLATION GUIDE

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## PK40JP2 - INCLUDED PIECES



- 1. SP33362SJP - Power Steering Pump and Pulley
- 2. MR20K - Remote Reservoir Mounting Bracket Kit
- 3. SR146-6-12 - Remote Reservoir
- 4. HA-L138 - Reservoir to Pump Low Pressure Hose
- 5. HE80293 High Pressure Hose Assembly
- 6. SR-VT - Anti-Splash Valve for Reservoir
- 7. FL-SWE715 - SWEPCO 715 Power Steering Fluid

- 8. 16.103P - Cooler Mount Bracket
- 9. C212D - 12" Dual Pass Cooler
- 10. HA-L139 - Cooler to Steering Gear Hose
- 11. HA-L140 - Cooler to Reservoir Hose
- 12. SF02-HF - AN Adapter Fitting

INSTALLATION GUIDE



1. Using a rag or towel, lift hood to the fullest and lay it on the top of the windshield.
2. Disconnect Battery.



3. Remove and retain OEM accessory drive belt.



Coolant Overflow Reservoir

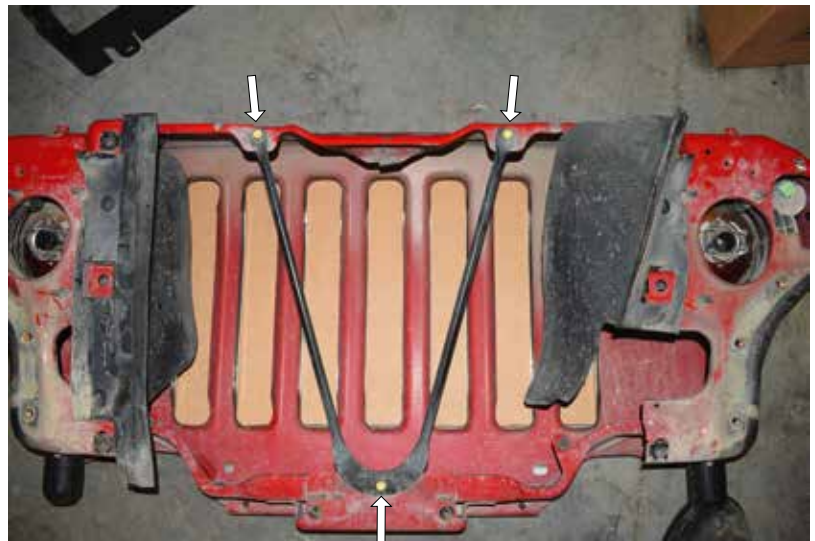
**4. Remove and retain coolant overflow reservoir.**



- 5. Drain fluid from power steering pump.**
- 6. Remove and discard OEM power steering pump.**



**7. Remove and retain all radiator and condenser hardware.**



**8. Remove and retain grill.**

**9. Remove and discard the center brace on the grill. Retain the bolts.**



**10. Slightly modify the power steering pump bracket to allow clearance for the SP32362SJP pump.**



**11. Using two (2) OEM bolts install the SP32362SJP pump.**



**12. Remove and retain two (2) of the OEM nuts on the brake booster.**



**13. Install the MR20K reservoir mounting bracket to the brake booster using the two (2) OEM nuts.**



14. Install the fittings as shown to the SR146-6-12 reservoir. NOTE: when installing fittings - install the o-ring side of the fitting to the reservoir.
15. Loosely install the reservoir bracket that came with the SR146-6-12 reservoir.



16. Install the SR146-6-12 reservoir to the MR20K mounting bracket using the two (2) 3/8-18NCx1 bolts and the two (2) 3/8-18NC lock nuts. Be sure to have fittings on the reservoir facing towards the front of the engine.



**17. Install the line from the reservoir to the pump. NOTE: when installing the hose you may have to slightly rotate the reservoir and the line so that it runs under the cruise control module.**



**18. Remove dust caps from steering gear box (if installing new gearbox) and install the 80293 hose from the pump to the steering gear box. NOTE: the 80293 hose goes to the port closest to the front of the vehicle and you may have to slightly adjust the hose to install it properly.**



**19. Install SF02-HF adapter fitting in the second port of the steering gear box.**



**20. On the bench, install the C212D cooler to the 16.103 cooler bracket using supplied hardware.**



**21. Using supplied AN fittings, install to the open ports on the cooler.**



**22. Using the OEM bolts set aside earlier, install the cooler and bracket as an assembly to the grill in place of the grill support brace.**



**23. Modify condenser seal on the driver side of the grill by measuring and cutting 2" from the bottom for fitting clearance. From the top measure 7" down to 9" down and 1-3/4" from the side to 3" to make a hole for the cooler hose.**



**24. Loosely install the HA-L139 hose to the bottom of the cooler using the 45 degree fitting. NOTE: this hose goes on the outside of the condenser seal.**

**25. Loosely install the HA-L140 hose to the top fitting of the cooler using the 45 degree fitting. NOTE: this hose goes through the condenser seal from**



**26. Carefully reinstall the grill back to the vehicle. While reinstalling the grill connect the HA-L139 hose to the steering gear box.**



**27. Route the HA-L140 hose as shown and connect to the reservoir.**



**28. Reinstall condenser, radiator, and fan shroud to the grill assembly.**

**29. Tighten all fittings at cooler, steering gear box and reservoir.**



**30. Remove and retain OEM nut found outside the headlight on the drivers side.**

**31. Install the SR-VT unit on the stud using the OEM nut.**



32. Install the SR-VLK fitting to the top of the reservoir and trim the hose to fit. **NOTE:** run the SR-VT hose in the same location as the other hoses.
33. Reinstall OEM accessory drive belt.
34. Reinstall OEM coolant overflow tank.
35. Double check all new fitting connections are tight then add fluid and follow bleeding instructions shown on the next page.



## **Jeep TJ /LJ Power Steering Pump Bleeding Procedures**

- 1. The vehicle's battery should always be disconnected before any modifications are made.**
- 2. Make sure all of the fittings in the power steering system are tight.**
- 3. Raise all steering tires off of the ground.**
- 4. Fill reservoir with power steering fluid (NEVER use automatic transmission fluid). Leave the cap off of the reservoir.**
- 5. Cycle the steering from lock to lock three or four times.**
- 6. Check fluid level in reservoir. Refill as needed.**
- 7. Repeat steps 5 and 6 until a consistent level in the reservoir is reached.**
- 8. Reconnect the battery. Replace the cap on the reservoir.**
- 9. Start the vehicle and let it run without any steering input for 30 seconds.**
- 10. Turn off engine.**
- 11. Check and refill reservoir as needed, replacing cap when done.**
- 12. Start engine and cycle steering from lock to lock 10-15 times.**
- 13. Turn off the engine and let it stand for 10 minutes to allow air bubbles to work out of the system.**
- 14. Repeat steps 11-14 until there are no air bubbles visible in the reservoir.**
- 15. With the engine running, observe the fluid level in the reservoir. While looking in the reservoir, turn off the engine. The fluid level should not change.**
- 16. If the level does not change, check the system for leaks. If there are no leaks, test drive the vehicle. If the level does change start over at step 4.**

**THANK YOU FOR CHOOSING PERFORMANCE STEERING COMPONENTS**