

THE
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INSTALLING A 1960-69 LINCOLN CRANK DRIVEN POWER STEERING PUMP

GREAT CARE must be taken when you install a rebuilt power steering pump, so it is not damaged during the installation process. Several components make up the power steering system, and all must be in good working order, free of contaminants and leaks for the installation to be successful. Take the time to check your system thoroughly to insure success.

To remove the power steering pump

- Disconnect the battery;
- Remove the radiator and related parts;
- Remove the fan;
- Remove the fan belts;
- Remove the crank shaft end bolt;
- Remove the pressure and return lines (use care not to spill the power steering fluid);
- Remove the harmonic balancer (a puller is required);
- Remove the harmonic balancer Woodruff key;
- Remove the two shoulder bolts (1/2" heads) that hold the pump;
- And finally, remove the pump.

Once the pump is removed, start your inspection.

- Check the lines both inside and outside for cracks, leaks, rot, blockage, stripped fittings. If the lines are original, the chances are that they suffer from all these problems and we strongly advise they be replaced.
- Open the fluid reservoir, remove the fluid and filter, and clean the reservoir thoroughly;
- Replace the filter;
- It makes great sense to replace all original hydraulic lines and filter, if possible.

Flushing the system

It is extremely important to flush the power steering system thoroughly in order to remove all contamination, particulates, and metals that have entered the system over the years. To do this requires putting the pressure side of the hose into a bucket of transmission fluid and an empty bucket on the return line so that you can flush your system properly. With the wheels of your car off the ground and your power steering pump removed, turn your steering wheel back and forth several times until no more old fluid and contaminants come out. Remember to have a container to catch the fluid. Dispose of the old fluid in a safe and responsible manner.

When you're sure that the system has been flushed out completely, you're ready to install the rebuilt power steering pump.

Installing the rebuilt power steering pump

- Install a new front engine seal;
- Install the rebuilt power steering pump using new cushions and grommets;
- Install a new pressure line, a new return line from the reservoir to the power steering pump, and clamp securely;
- Install the two shoulder bolts that hold the pump in position;
- Install the Woodruff key;
- Install the harmonic balancer
- Install the crank shaft end bolt
- Add transmission fluid to the reservoir until full (approximately one quart);
- With the wheels still off the ground, turn the steering wheel back and forth several times and check and refill the reservoir level;
- Repeat this several times until you are sure that the system is full;
- Next, start the engine and run for approximately five to six seconds;
- Stop, check fluid level again and top off the reservoir;
- Start the engine again for approximately ten to 15 seconds;
- Stop, check levels, and refill as needed;
- Start the engine again and let it idle for several minutes, making sure that the wheels stay centered, and that they do not try and turn to one side or the other;
- Next, gently turn the steering wheel from left to right, being extremely careful not to lock the steering wheel in either direction for more than a fraction of a second;
- Stop the engine. Check the power steering fluid levels and fill as needed.
- Restart the engine and let it run for several minutes to give the system a chance to remove any air blockages that may occur. This is a good time to turn on any hydraulically operated systems, such as the wiper motor, with the wiper arms and blades removed. Turn off the engine, wait five to 10 minutes, put the car on the ground, and go for a ride.
- Pay attention to any unusual whining or groaning of the system. It could be a sign of a problem.
- After you've taken your ride, let the car sit for a period of time. Then check for any leaks or drips under the engine.