Instruction Bulletin #1021

**Important**

***Power Steering Fluid***
Use clean, new power steering fluid only.

1) Turn ignition off.
2) Raise front wheels off the ground.
3) Turn the steering wheel full left.
4) Fill fluid level to "Full Cold" level or if using remote reservoir 1" over inner tube.
5) With assistant checking fluid level and condition, turn steering wheel lock to lock at least 20 times.

**Note:** On systems with long return lines or fluid coolers, turn steering wheel lock to lock at least 40 times. Trapped air may cause fluid to overflow. Thoroughly clean spilled fluid to allow for leak check.

6) While turning wheels check fluid level constantly.

**Note:** No bubbles are allowed. For any sign of bubbles, recheck connections then repeat step 5.

7) Start engine. With engine idling, maintain fluid level. Reinstall cap.

8) Return wheels to center. Lower front wheels to the ground.

9) Keep engine running for two (2) minutes.

10) Turn steering wheel in both directions.

**Verify:**
- Smooth power assist
- Noiseless operation
- Proper fluid level
- No system leaks
- Proper fluid condition
- No bubbles, no foam, no discoloration.

11) If all proper conditions apply, bleeding is complete.

12) If any problem remains see "Special Conditions".

**Special Conditions:**
- Foam or bubbles in fluid
  - Fluid must be completely free of bubbles. In step 5, be alert to periodic bubbles that could indicate a loose connection or leaky O-Ring seal in either the return hose or pressure hose.
  - Discolorated fluid (milky, opaque, or light tan color)
- Pump whine or groan
  - With engine running, recheck hoses for possible contact with frame body or engine. If no contact is found, follow either method below to cool down fluid and re-pressurize system.
  - **Method 1:** Normal Cool Down
    - Switch engine off. Wait for system to cool. Install reservoir cap.
  - **Method 2:** Partial Fluid Replacement
    - Switch engine off. Use a suction device to remove fluid from the reservoir. Refill with cool, clean fluid. Install reservoir cap.

After either method of cooling, start engine and allow engine to reach normal operating temperature. If noise persists, remove and replace power steering pump. Repeat bleed procedure following pump replacement.

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**Warranty Disclaimer:**
Flaming River® warrants its products to be free from defects in material and workmanship for a period of one (1) year after the date of purchase. It is the customer’s responsibility to determine the suitability of a given Flaming River® product for the customer’s uses. Use qualified chassis specialists for the installation of all steering related components. Be aware that the installation of certain Flaming River® products may adversely impact a manufacturer’s warranty with respect to certain vehicles and other manufactured goods. Flaming River will repair or replace any product found to be defective in material or workmanship. Improper installation, abuse, racing and/or modification VOID WARRANTY. Flaming River® is not responsible for any labor costs associated with any warranty.