

## LANCIA POWER-ASSISTED RACK & PINION

Lancia Beta  
Coupe  
Sedan  
HPE

### DESCRIPTION

Lancia models have an optional power-assisted rack and pinion steering system. The power assist pump is located just to the right of the engine crankshaft and is belt-driven. The non-integral fluid reservoir is situated directly above the pump.

### MAINTENANCE

#### CHANGING & BLEEDING FLUID

1) Remove banjo bolts from power steering pump inlet and outlet ports. Take cover from reservoir. Disconnect ignition coil high tension lead.

**NOTE** — On air conditioned vehicles it will be necessary to remove right front wheel and splash guard to gain access to banjo bolts.

2) Turn steering wheel from lock-to-lock and crank engine intermittently to ensure all fluid is drained. Replace banjo bolts, using new washers.

**CAUTION** — When fluid is drained, DO NOT continue to crank engine as power steering pump will be damaged.

3) Check pump fluid reservoir filter and replace if necessary.

4) Fill reservoir with fresh fluid while intermittently cranking engine to draw fluid into pump.

5) When fluid level indicates full and remains constant, stop cranking engine and connect ignition coil lead.

6) Start engine and run at idle. Watch level of fluid in reservoir. Refill as required to maintain full level.

7) While idling engine, turn steering wheel from lock-to-lock several times until no air bubbles are seen in fluid reservoir.

8) Check all hose connections for any leakage. Stop engine and note that fluid level will rise slightly. Install reservoir cover.

### REMOVAL & INSTALLATION

#### FLUID RESERVOIR

**Removal** — 1) Remove power steering pump fluid inlet banjo bolt and allow reservoir to drain. If equipped with A/C, remove right front wheel and splash guard to gain access to bolt.

2) Remove cover from reservoir, remove clips and detach hoses from reservoir. Remove support bracket and reservoir from vehicle.

**Installation** — To install, reverse removal procedure, using new washers for banjo bolts. Fill and bleed system.

#### POWER STEERING PUMP

**Removal** — 1) Raise front of vehicle and support on frame stands. Remove right front wheel and splash guard.

2) Place container under pump, remove inlet banjo bolt from pump and drain fluid.

3) In non-A/C, hold pump drive belt and remove pulley nut. Unscrew top bracket adjusting bolt and remove belt. Remove outlet banjo bolt. Slacken alternator and remove pump mounting through-bolt. Lift pump assembly and bracket from vehicle.

4) If equipped with A/C, remove air cleaner and loosen compressor mounting. Remove pump pulley nut and remove clogged drive belt. Take off pump pulley. Remove outlet banjo bolt and rear bracket. Remove pump mounting screws and remove pump.

**Installation** — To install, reverse removal procedure, using new banjo bolt washers. Also, set pump belt to proper tension. Fill and bleed fluid system.

#### POWER-ASSISTED RACK & PINION ASSEMBLY

**Removal** — 1) Disconnect battery. Remove steering shaft joint bolt, located inside passenger compartment. Remove steering column lower casing, disconnect column from dash and rest on front seat.

2) Raise front of vehicle and support on frame stands. Remove front wheels.

3) Remove cooling system overflow tank. Place container under steering rack, remove fluid outlet tubing from housing and drain fluid.

4) Detach tie rod end ball joints from steering knuckles. Remove guards from tie rod housing. Remove EGR system lower piping and exhaust pipe front heat shield.

5) Remove rack and pinion steering assembly mounting bolts and lift assembly out left side of vehicle.

**Installation** — To install, reverse removal procedure, after setting rack in central position. Use new banjo bolt washers. Refill and bleed fluid system.

### OVERHAUL

**NOTE** — Overhaul information not available from manufacturer.