

DRIVE BELT ROUTING

1988 Jeep Cherokee

1983-88 ENGINE COOLING
Jeep Drive Belt Routing

Cherokee, Comanche, Wagoneer, Wrangler, Grand Wagoneer

DESCRIPTION

Two drive belt systems are used on Jeep vehicles. The conventional V-Belt and the single Serpentine or V-Ribbed belt.

The single (Serpentine or V-Ribbed) drive belt system has been adopted by several manufacturers as a replacement for multiple V-Belt systems previously offered. The Serpentine belt requires a suitable belt tensioner similar to those used to control timing belt tension.

Use of a tensioner allows engine accessories to be mounted rigidly on the engine. The single belt drive system has a predicted life of 100,000 miles before replacement is required.

The belt tensioner has a wide functional range and is capable of maintaining tension during the expected life of the belt. Tensioner cannot compensate for extreme belt lengths. Poor tension control and possible tensioner damage can result from excessive belt length.

INSPECTION

Inspect belt for fraying. If fraying has occurred, ensure belt and tensioner are aligned properly. See Fig. 1. If tensioner has reached its limit of travel, belt is excessively stretched and replacement of belt is required. If excessive noise is noticed from tensioner or idler, check for possible bearing failure. Small cracks in the back of the belt are acceptable. Do not apply "Belt Dressing" or any other additive to serpentine belt.

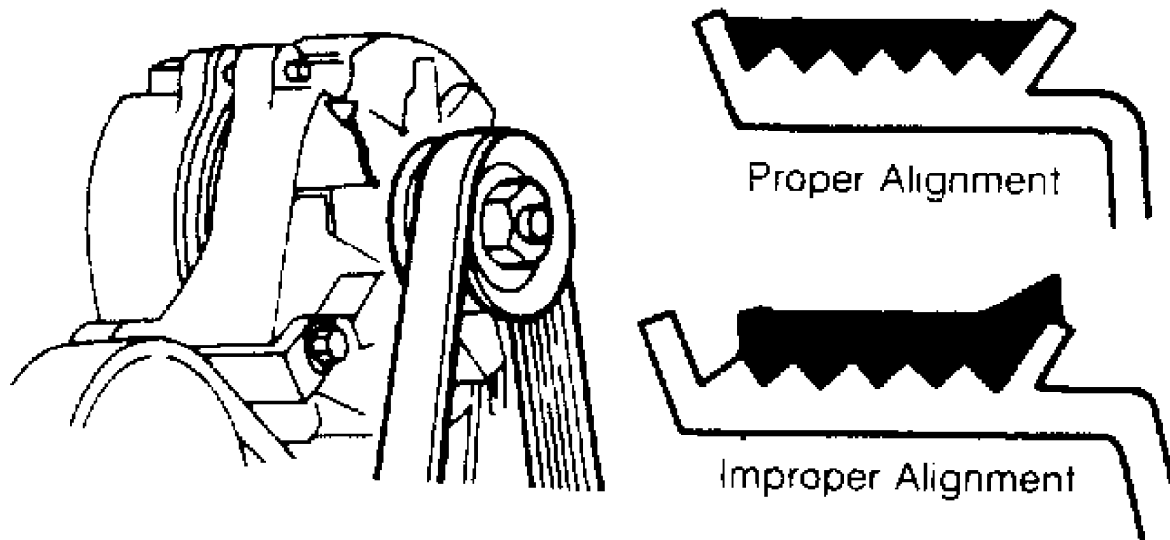


Fig. 1: Serpentine Belt Alignment
Courtesy of Ford Motor Co.

DRIVE BELT ROUTING

CHEROKEE

Install belt on crankshaft and belt-driven components as shown. Adjust tensioner. See Figs. 2 and 3.

1983-88

FOUR-CYLINDER ENGINE DRIVE BELT ARRANGEMENTS

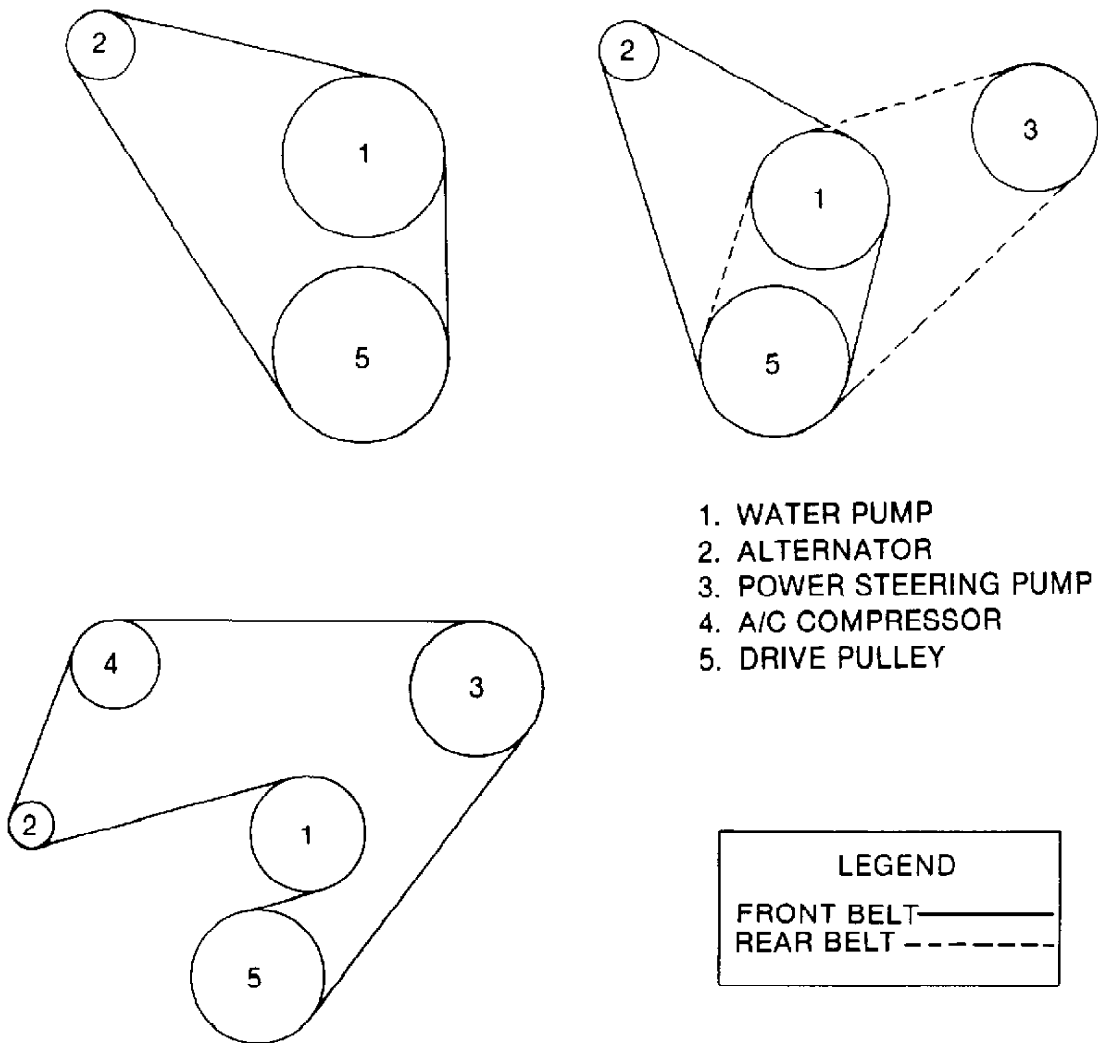
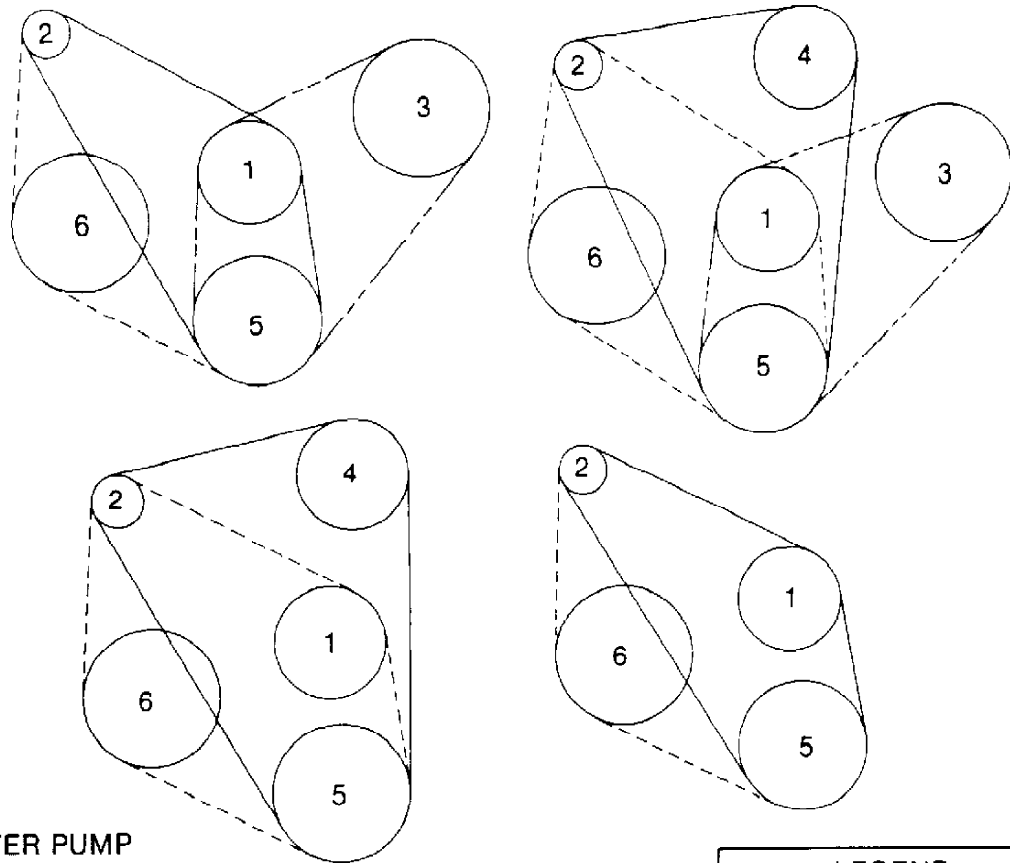


Fig. 2: Drive Belt Arrangement: 1983-88 2.5L Cherokee
Courtesy of Chrysler Motors

1983-86

SIX-CYLINDER ENGINE DRIVE BELT ARRANGEMENTS



1. WATER PUMP
2. ALTERNATOR
3. POWER STEERING PUMP
4. A/C COMPRESSOR
5. DRIVE PULLEY
6. AIR PUMP

LEGEND	
FRONT BELT	—————
MIDDLE BELT	- - - - -
REAR BELT	- · - · -

Fig. 3: Drive Belt Arrangement: 1983-86 4.2L Cherokee
Courtesy of Chrysler Motors

WRANGLER

Install belt on crankshaft and belt-driven components as shown. Adjust tensioner. See Figs. 4-10.

1983-88

**FOUR-CYLINDER ENGINE
DRIVE BELT ARRANGEMENTS**

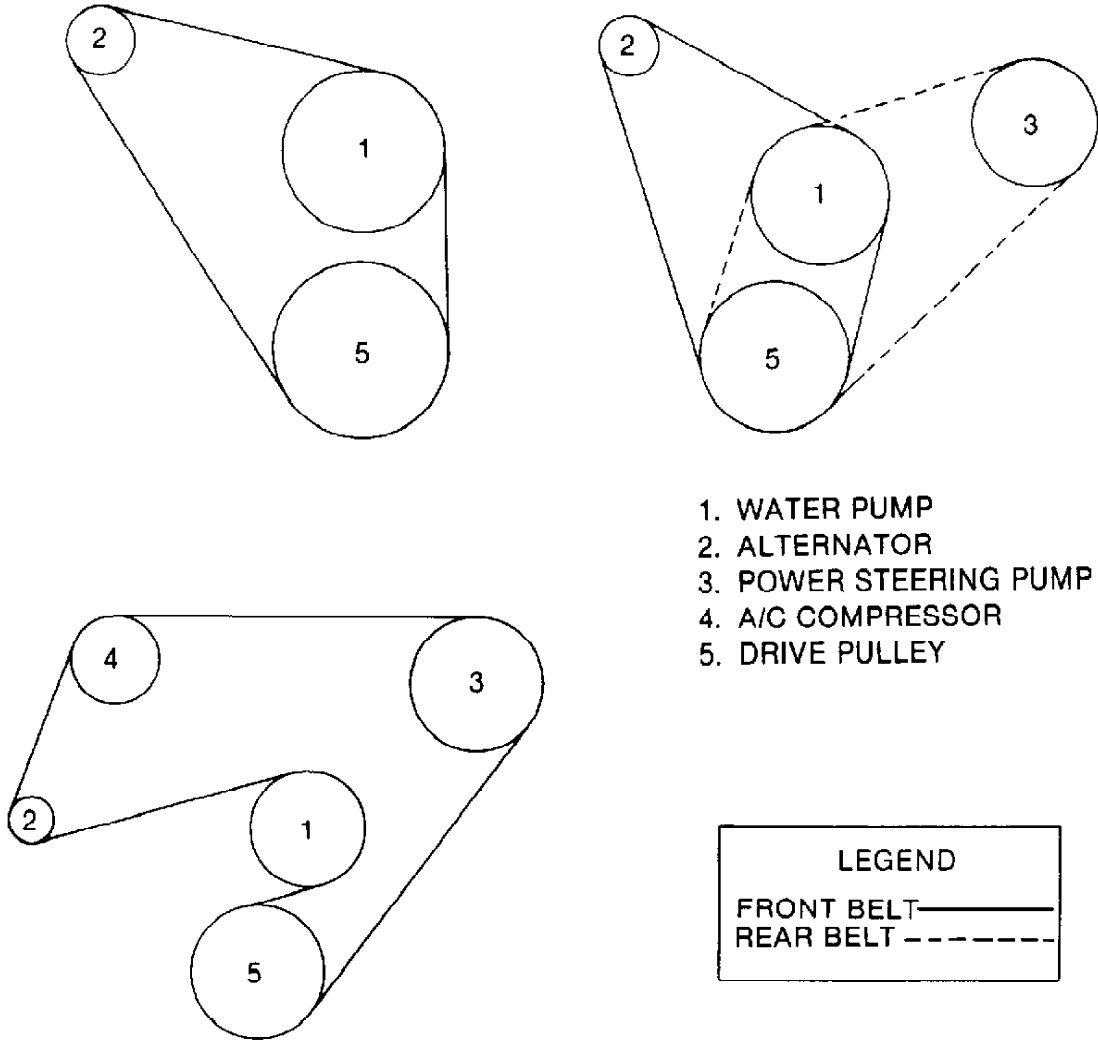
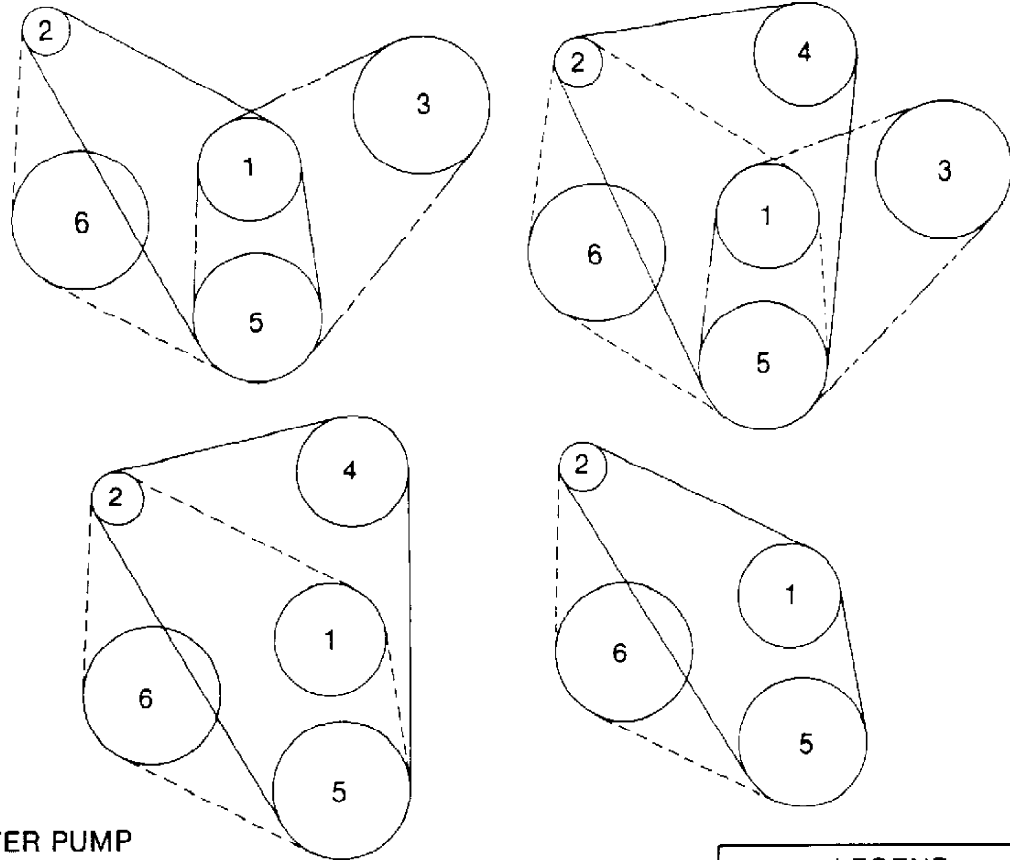


Fig. 4: Drive Belt Arrangement: 1983-88 2.5L Wrangler
Courtesy of Chrysler Motors

1983-86

**SIX-CYLINDER ENGINE
DRIVE BELT ARRANGEMENTS**



1. WATER PUMP
2. ALTERNATOR
3. POWER STEERING PUMP
4. A/C COMPRESSOR
5. DRIVE PULLEY
6. AIR PUMP

LEGEND	
FRONT BELT	—————
MIDDLE BELT	- - - - -
REAR BELT	- · - · -

Fig. 5: Drive Belt Arrangement: 1983-86 4.2L Wrangler
Courtesy of Chrysler Motors

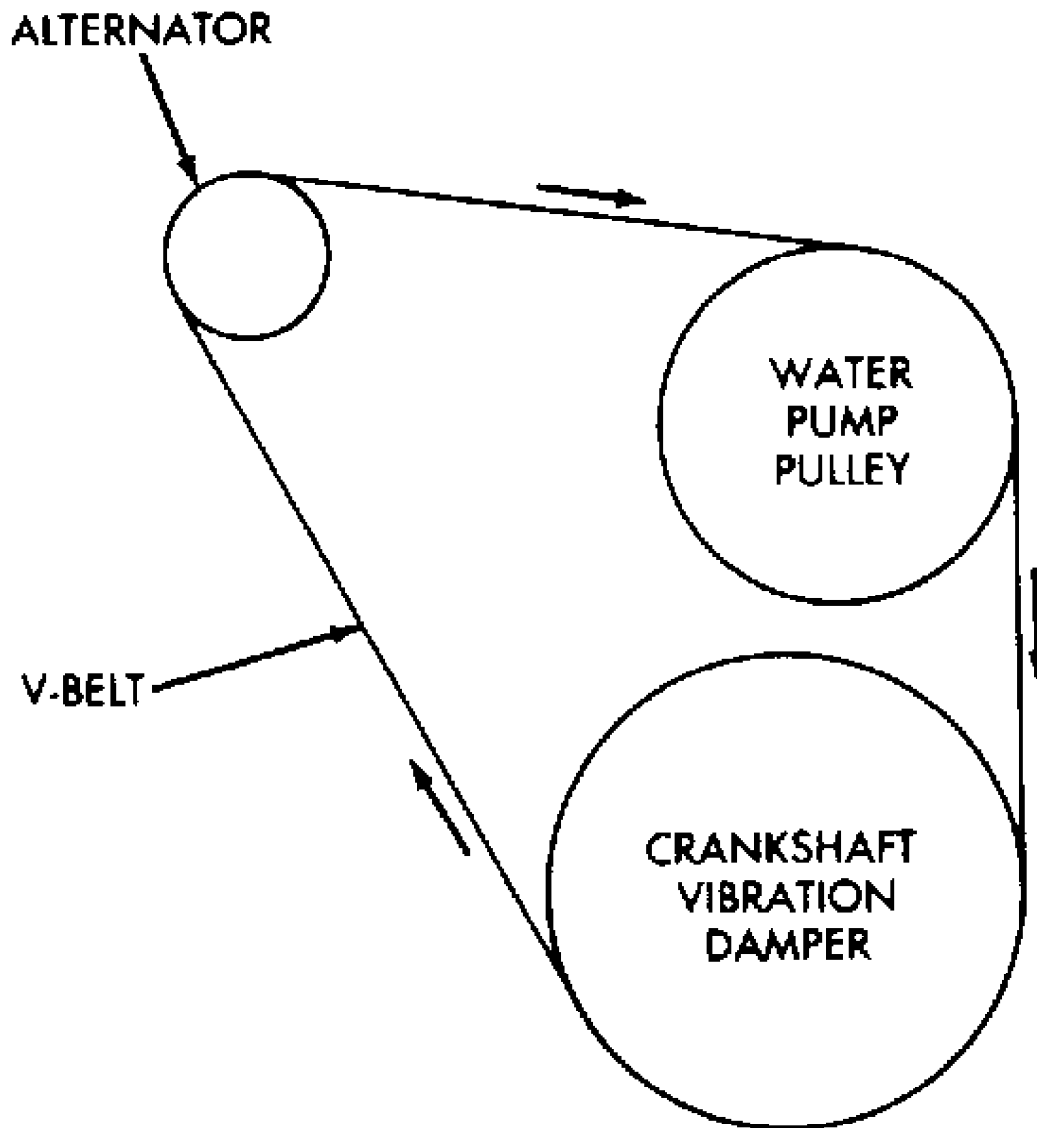


Fig. 6: Alternator Only: 1989 2.5L and 4.2L Wrangler (Except California)
Courtesy of Chrysler Motors

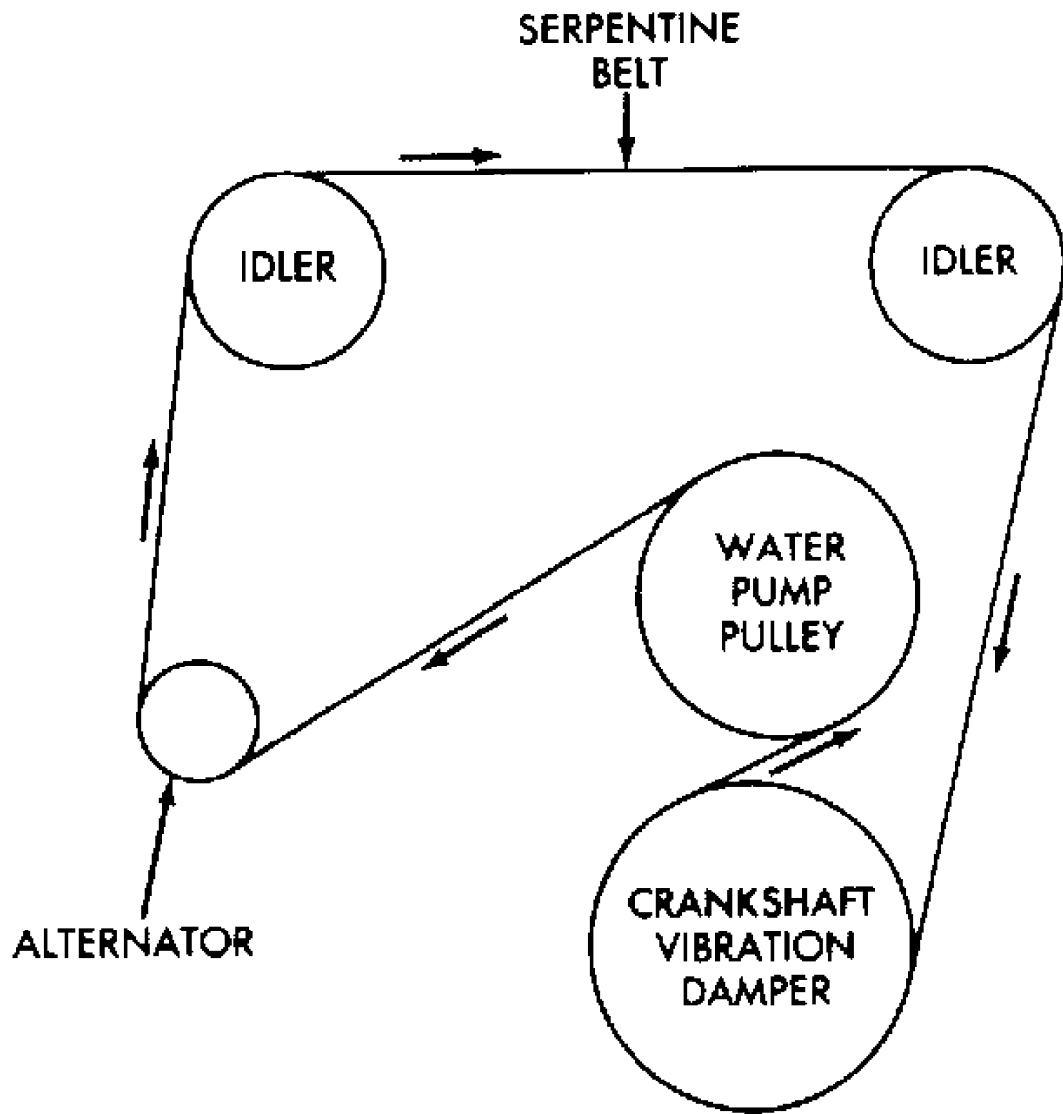


Fig. 7: Alternator Only: 1989 4.2L Wrangler (California)
Courtesy of Chrysler Motors

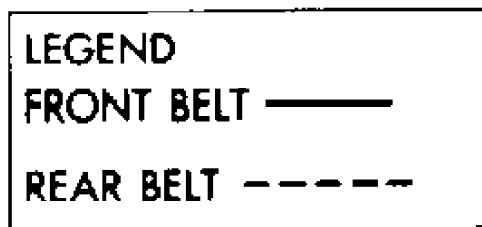
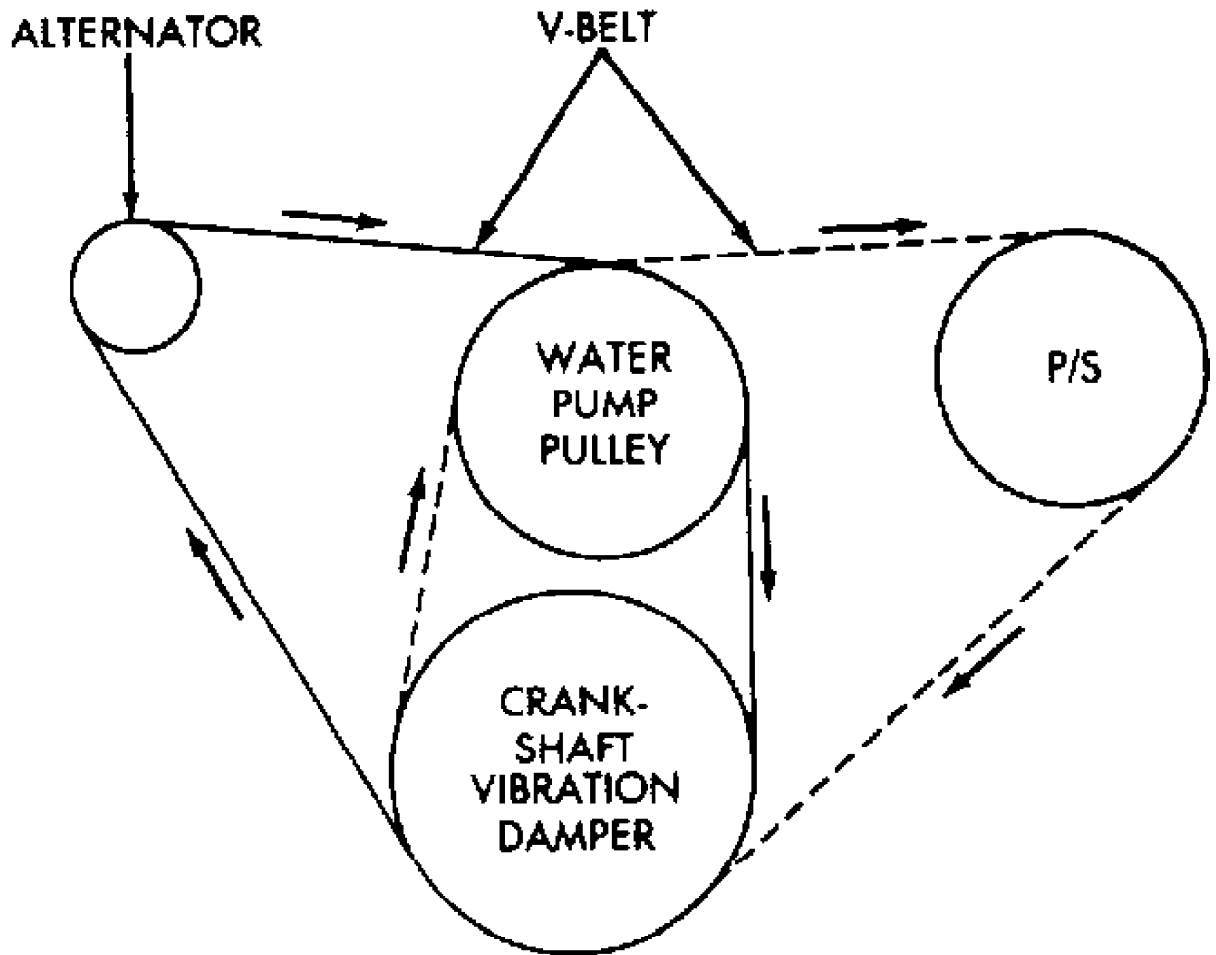


Fig. 8: Alternator & P/S: 1989 2.5L and 4.2L Wrangler (Except California)
 Courtesy of Chrysler Motors

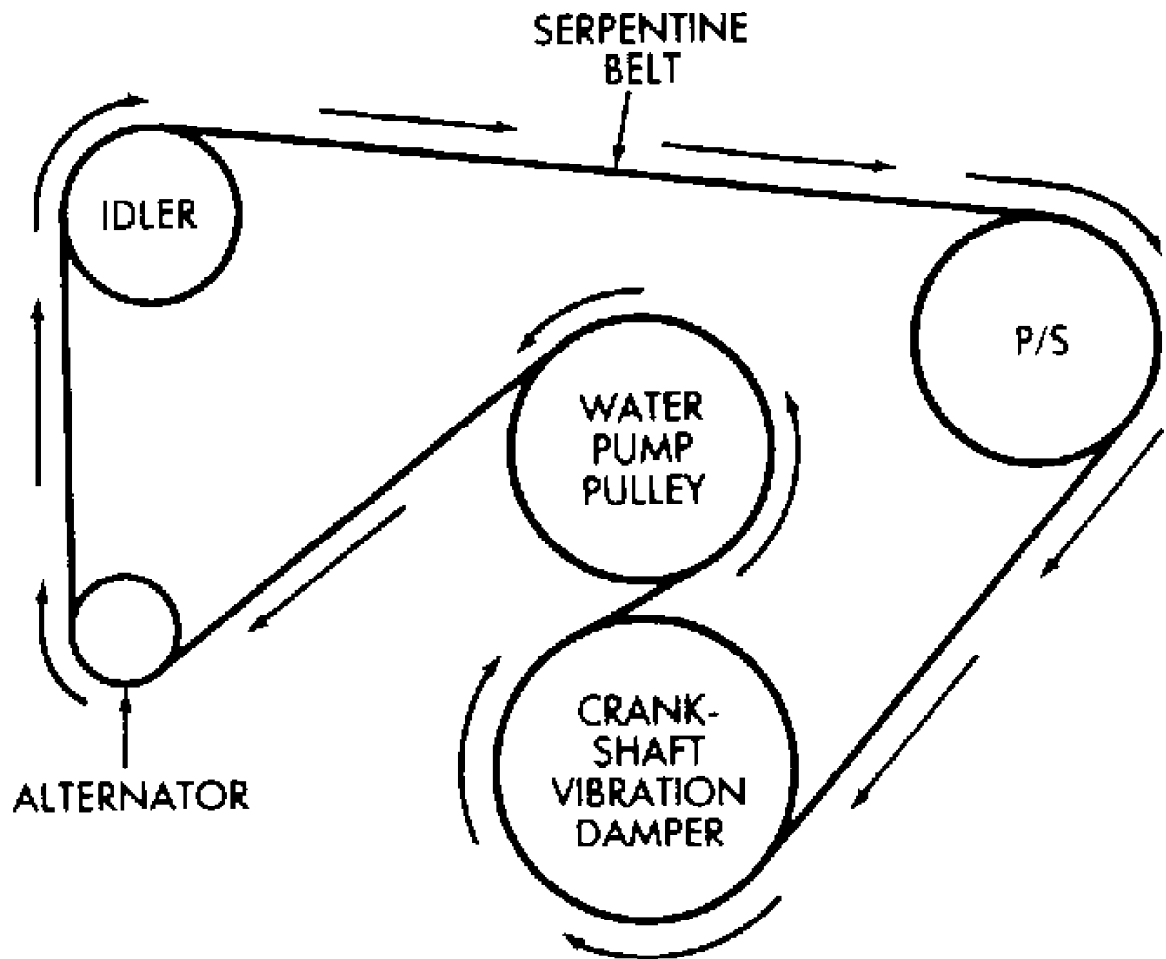


Fig. 9: Alternator & P/S: 1989 4.2L Wrangler (California)
Courtesy of Chrysler Motors

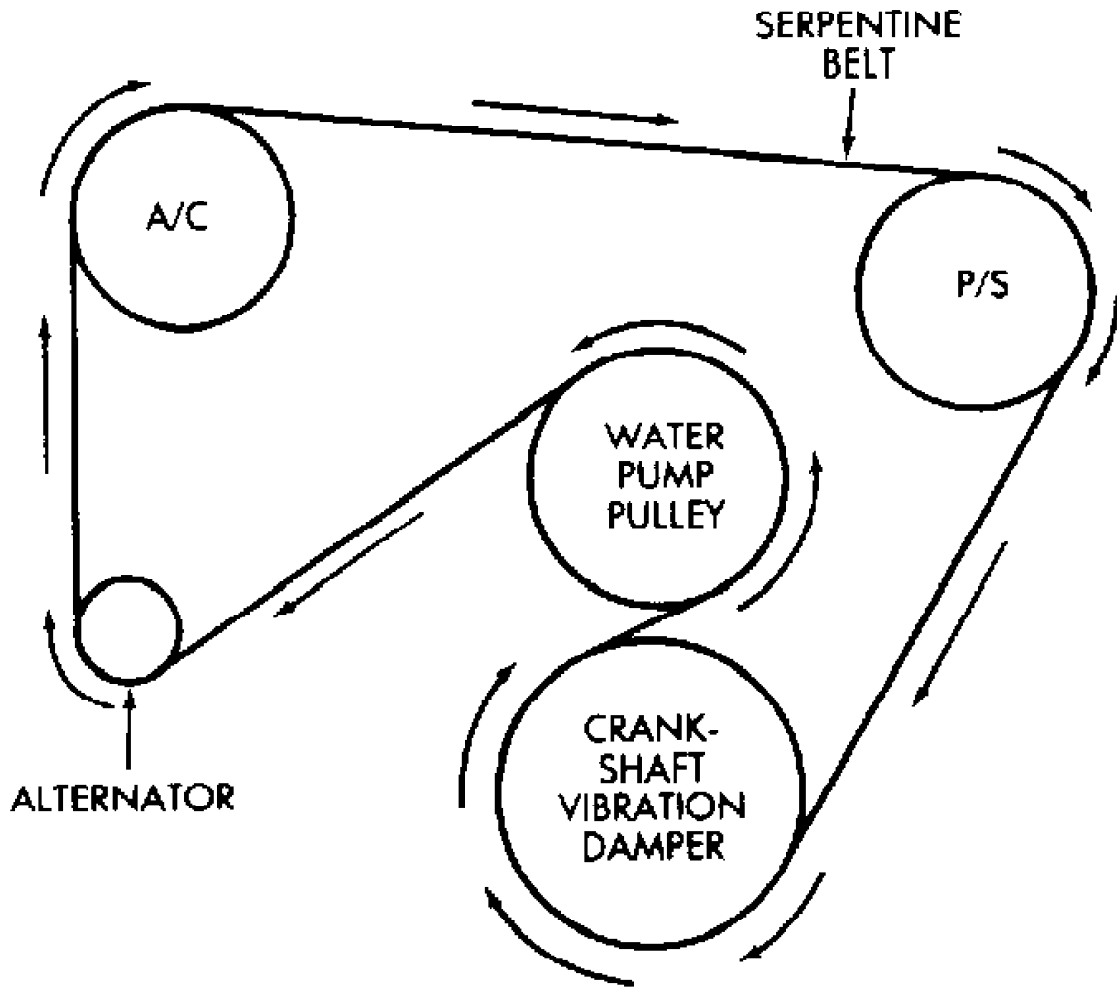


Fig. 10: Alternator, A/C & P/S: 1989 4.2L Wrangler
 Courtesy of Chrysler Motors

COMANCHE AND WAGONEER

Install belt on crankshaft and belt-driven components as shown. Adjust tensioner. See Figs. 11-18.

**FOUR-CYLINDER ENGINE
DRIVE BELT ARRANGEMENTS**

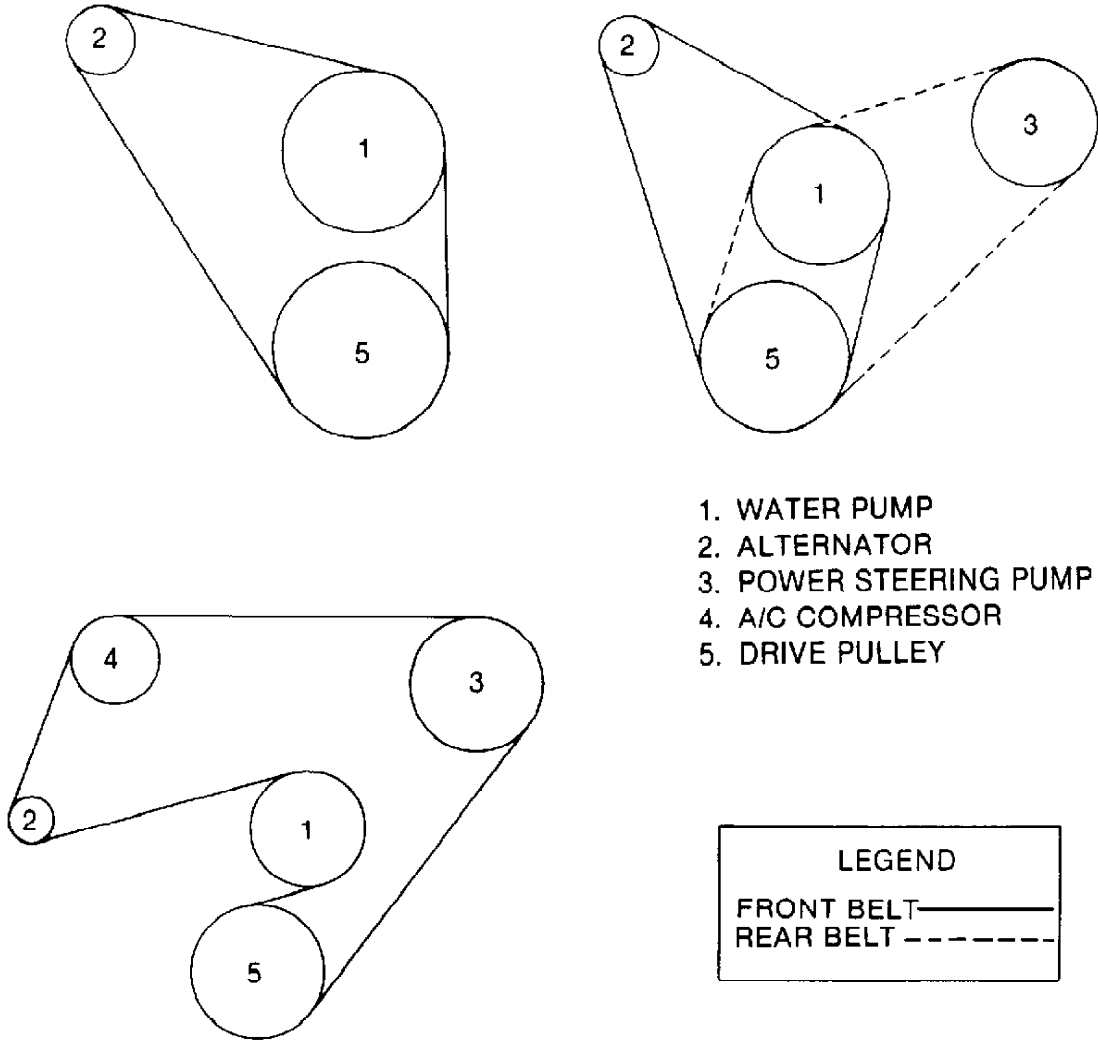
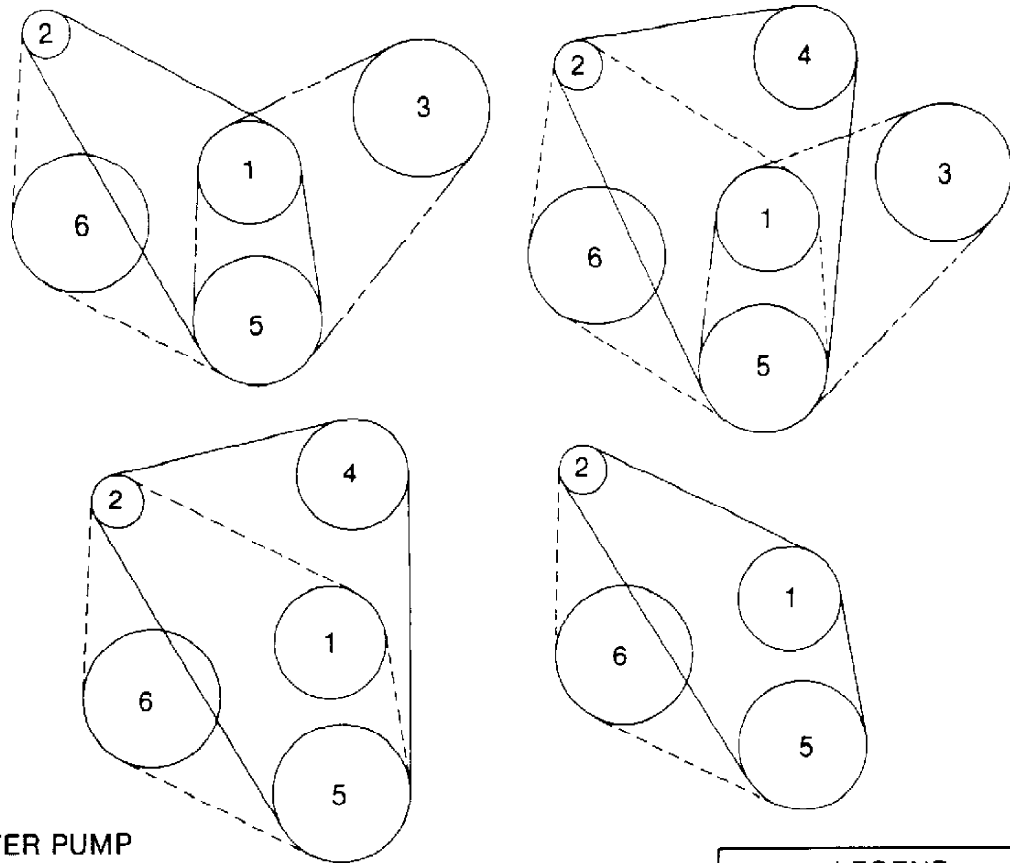


Fig. 11: Drive Belt Arrangement: 1983-88 2.5L Comanche & Wagoneer
Courtesy of Chrysler Motors

1983-86

SIX-CYLINDER ENGINE DRIVE BELT ARRANGEMENTS



- 1. WATER PUMP
- 2. ALTERNATOR
- 3. POWER STEERING PUMP
- 4. A/C COMPRESSOR
- 5. DRIVE PULLEY
- 6. AIR PUMP

LEGEND	
FRONT BELT	—————
MIDDLE BELT	- - - - -
REAR BELT	- · - · -

Fig. 12: Drive Belt Arrangement: 1983-86 4.2L Comanche & Wagoneer
 Courtesy of Chrysler Motors

1987-89

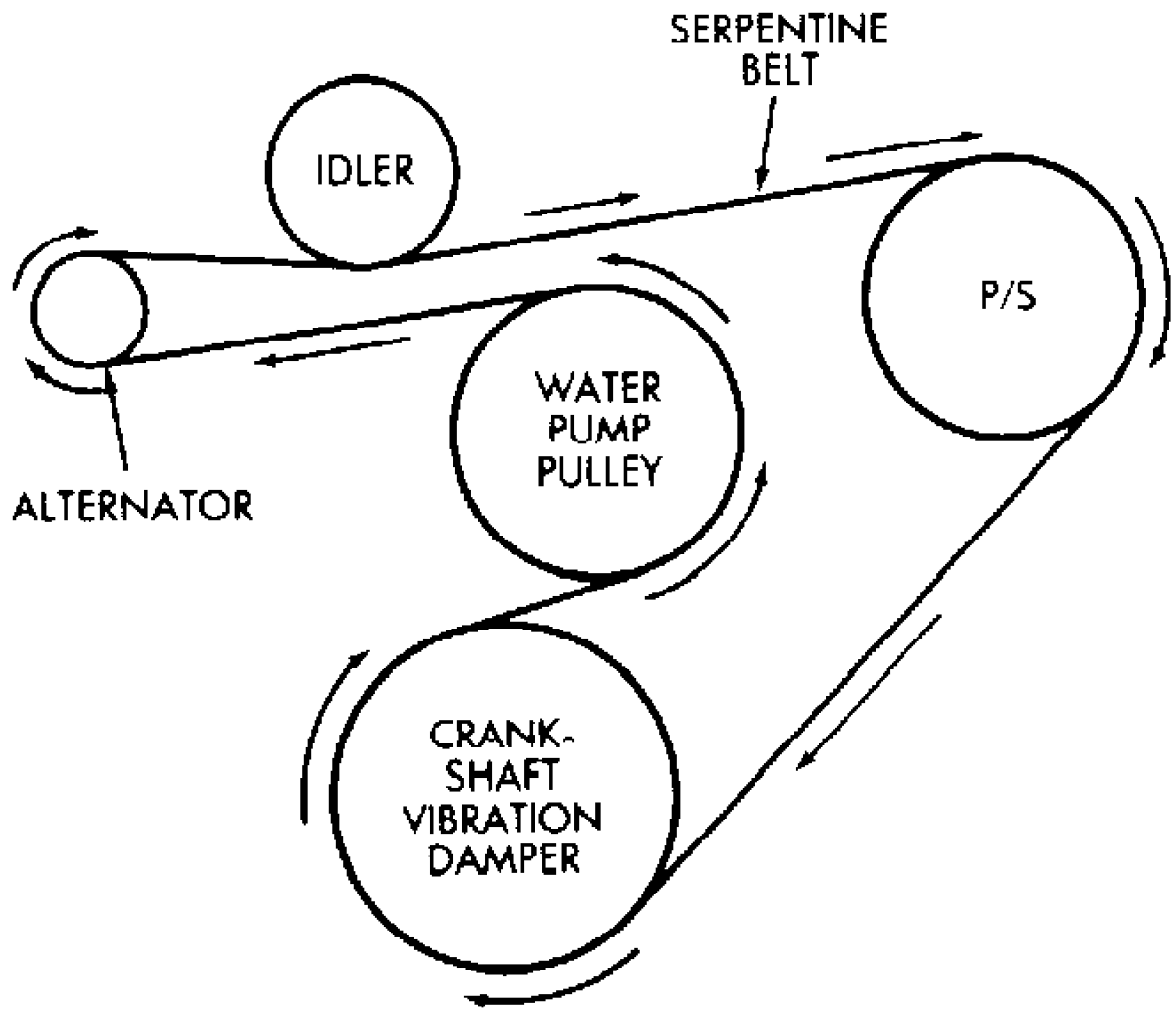


Fig. 13: Alternator & P/S: 1987-89 2.5L Comanche & Wagoneer
Courtesy of Chrysler Motors

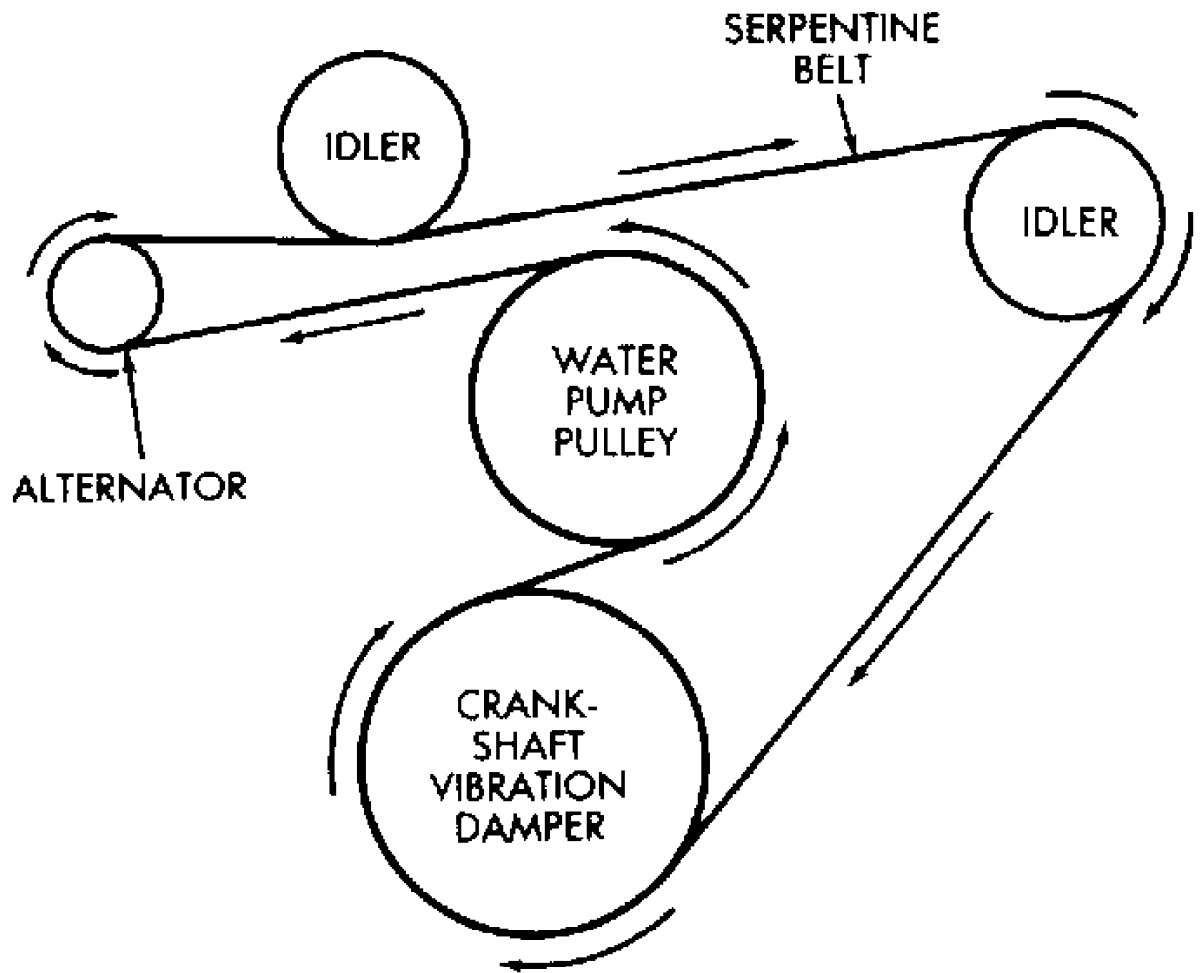


Fig. 14: Alternator Only: 1987-89 2.5L Comanche & Wagoneer
Courtesy of Chrysler Motors

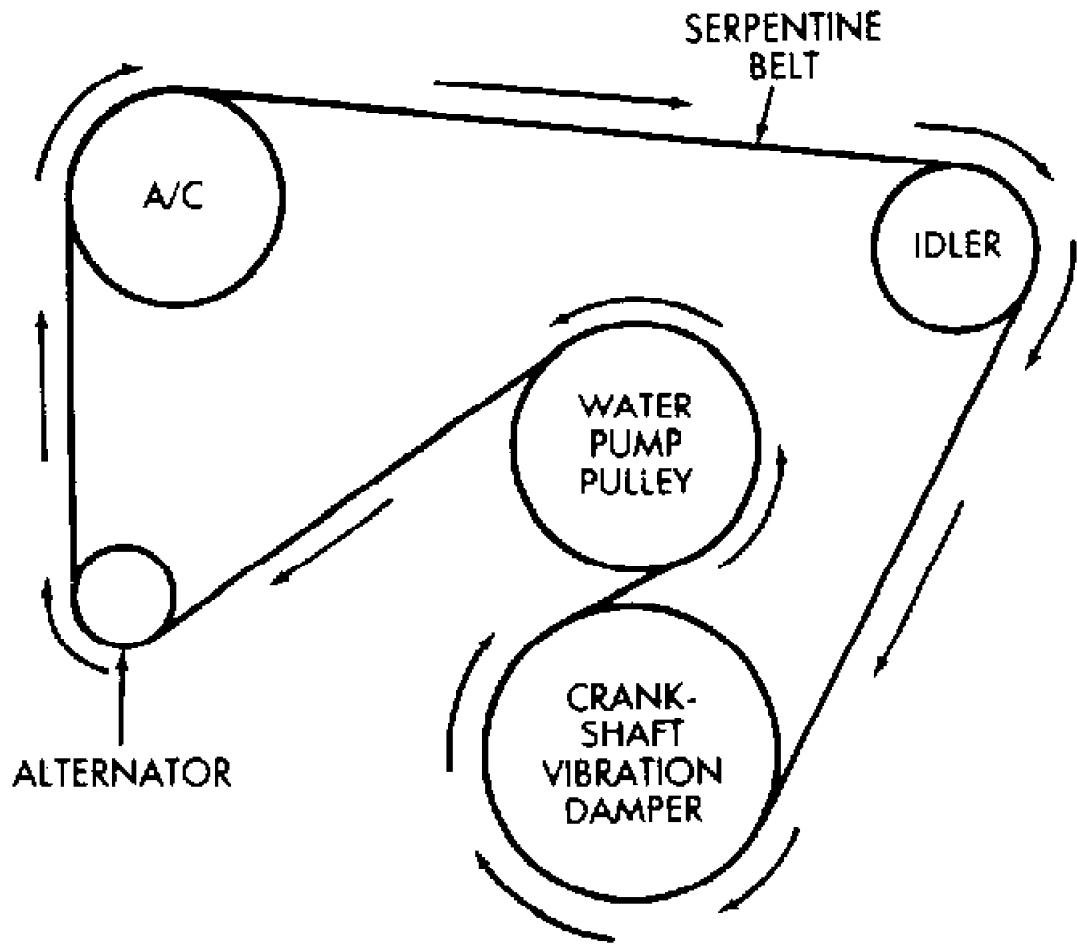


Fig. 15: Alternator & A/C: 1987-89 2.5L Comanche & Wagoneer
Courtesy of Chrysler Motors

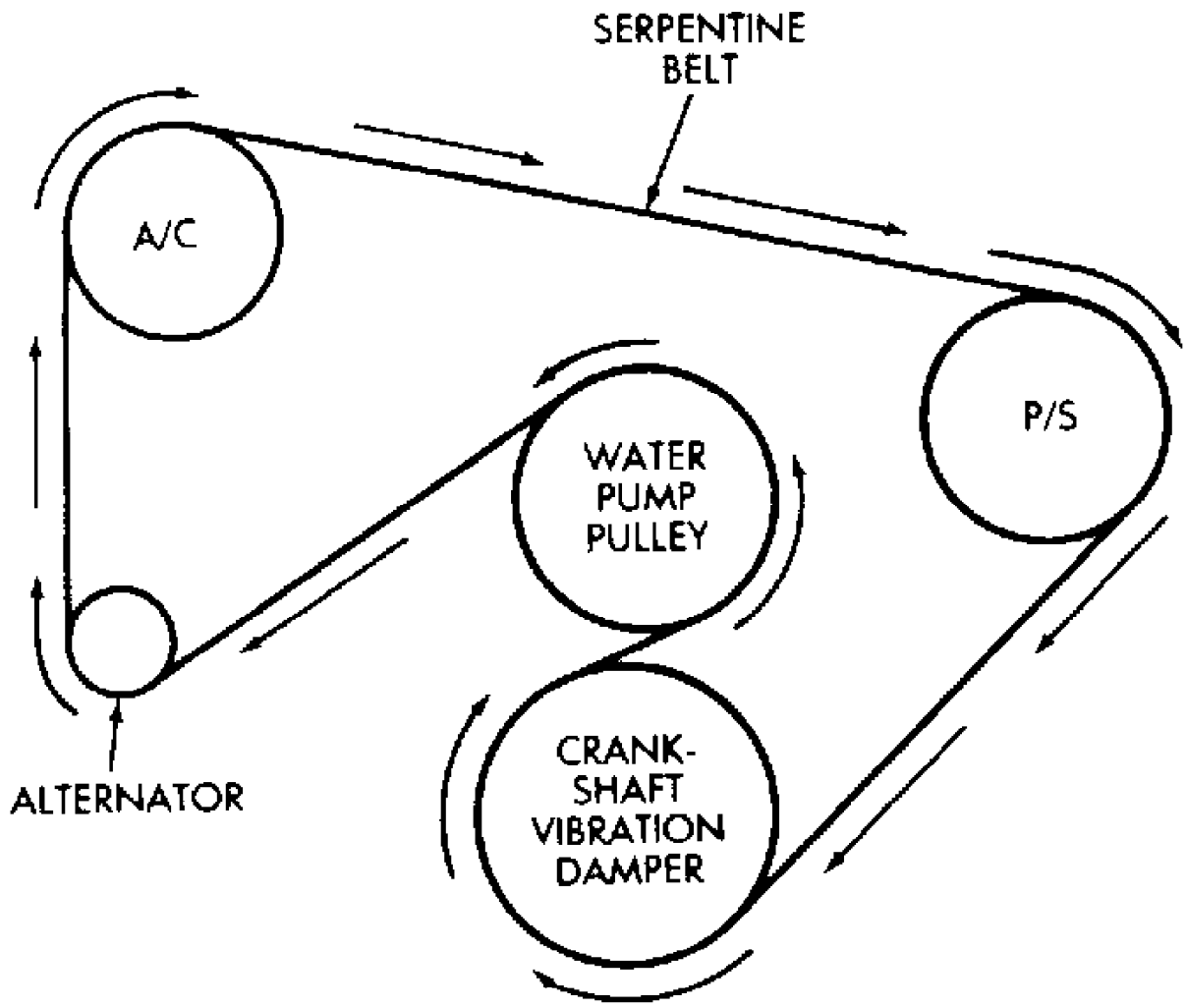


Fig. 16: Alternator, A/C & P/S: 1987-89 2.5L Comanche & Wagoneer
Courtesy of Chrysler Motors

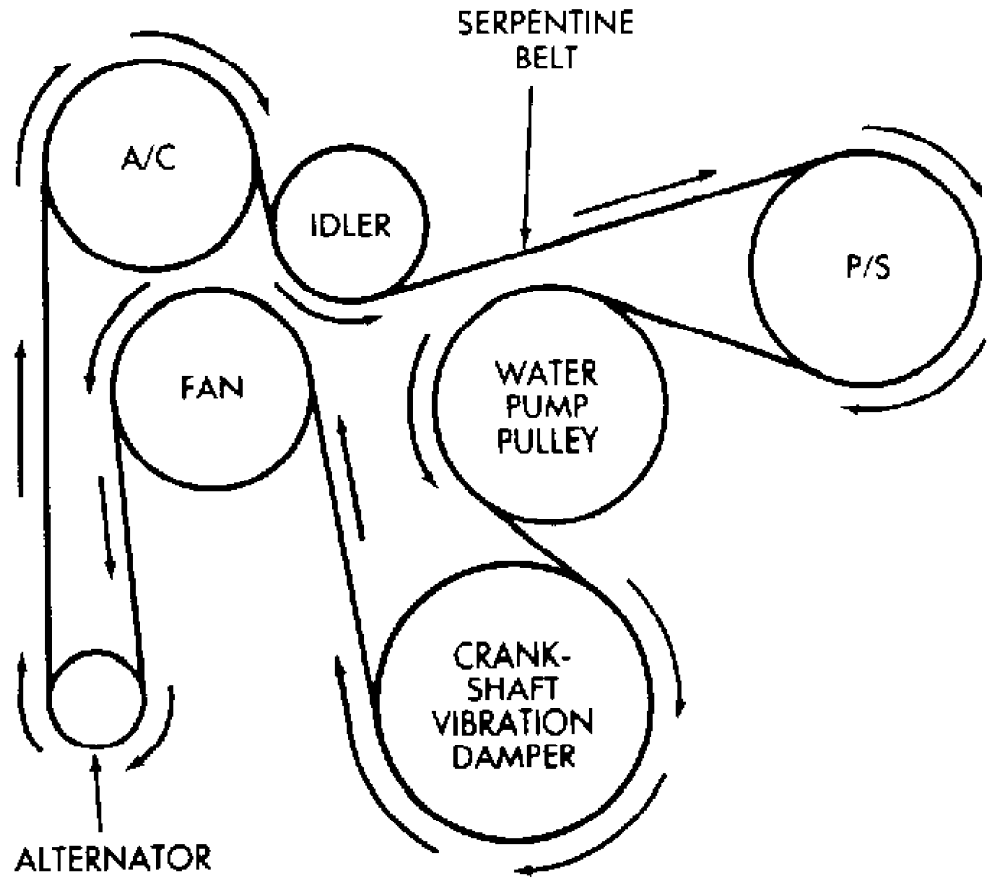


Fig. 17: Alternator, A/C & P/S: 1987-89 4.0L Comanche & Wagoneer
 Courtesy of Chrysler Motors

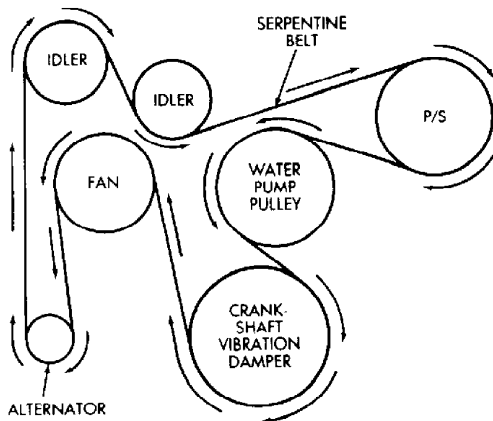


Fig. 18: Alternator & P/S: 1987-89 4.0L Comanche & Wagoneer
 Courtesy of Chrysler Motors

GRAND WAGONEER

Install belt on crankshaft and belt-driven components as shown. Adjust tensioner. See Figs. 19-24.

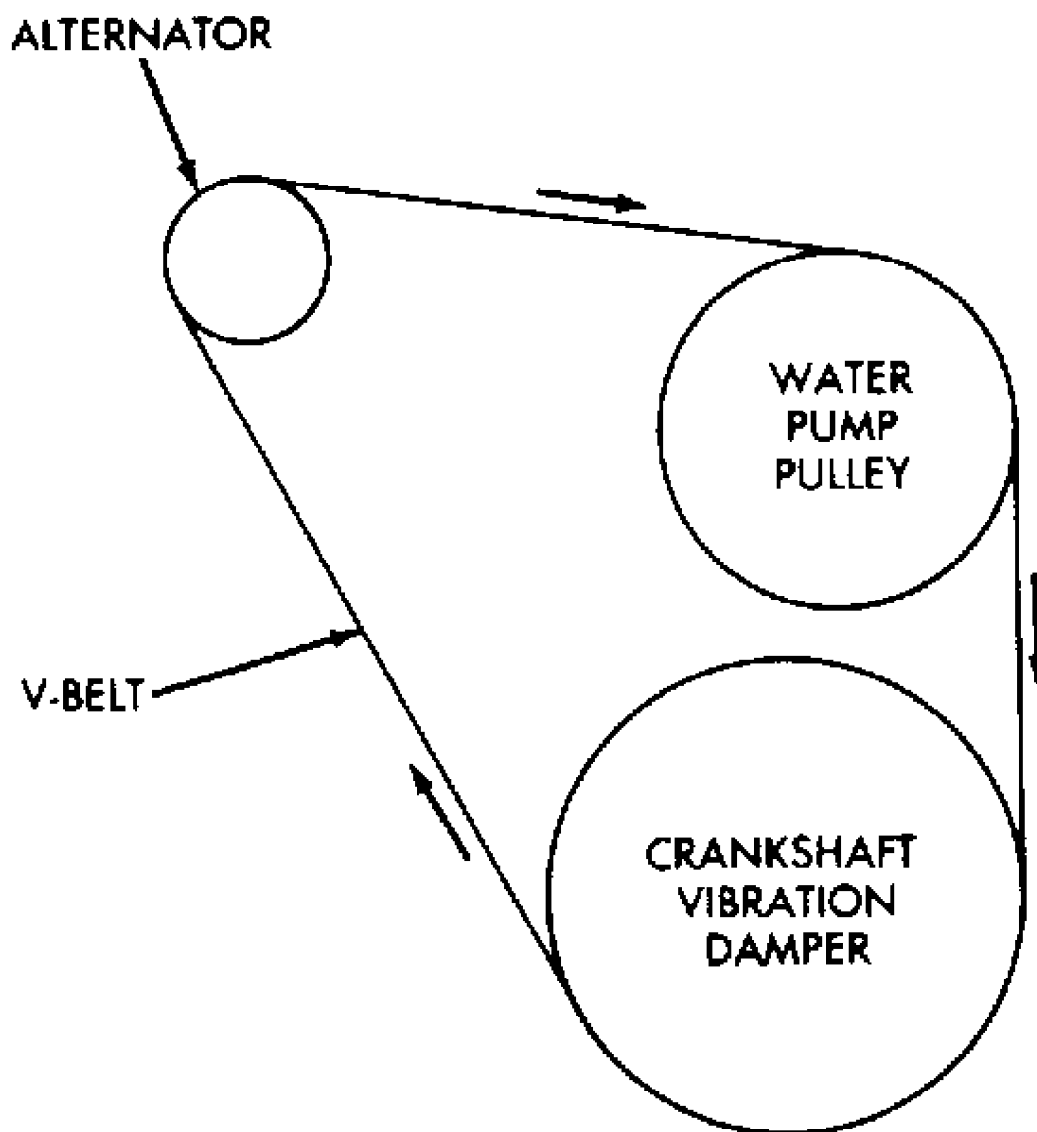


Fig. 19: Alternator Only: 4.2L Grand Wagoneer
Courtesy of Chrysler Motors

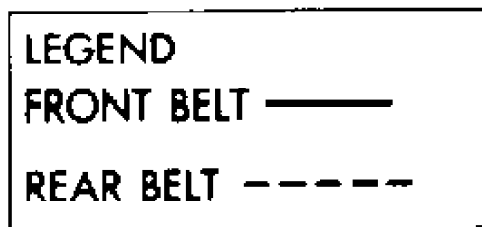
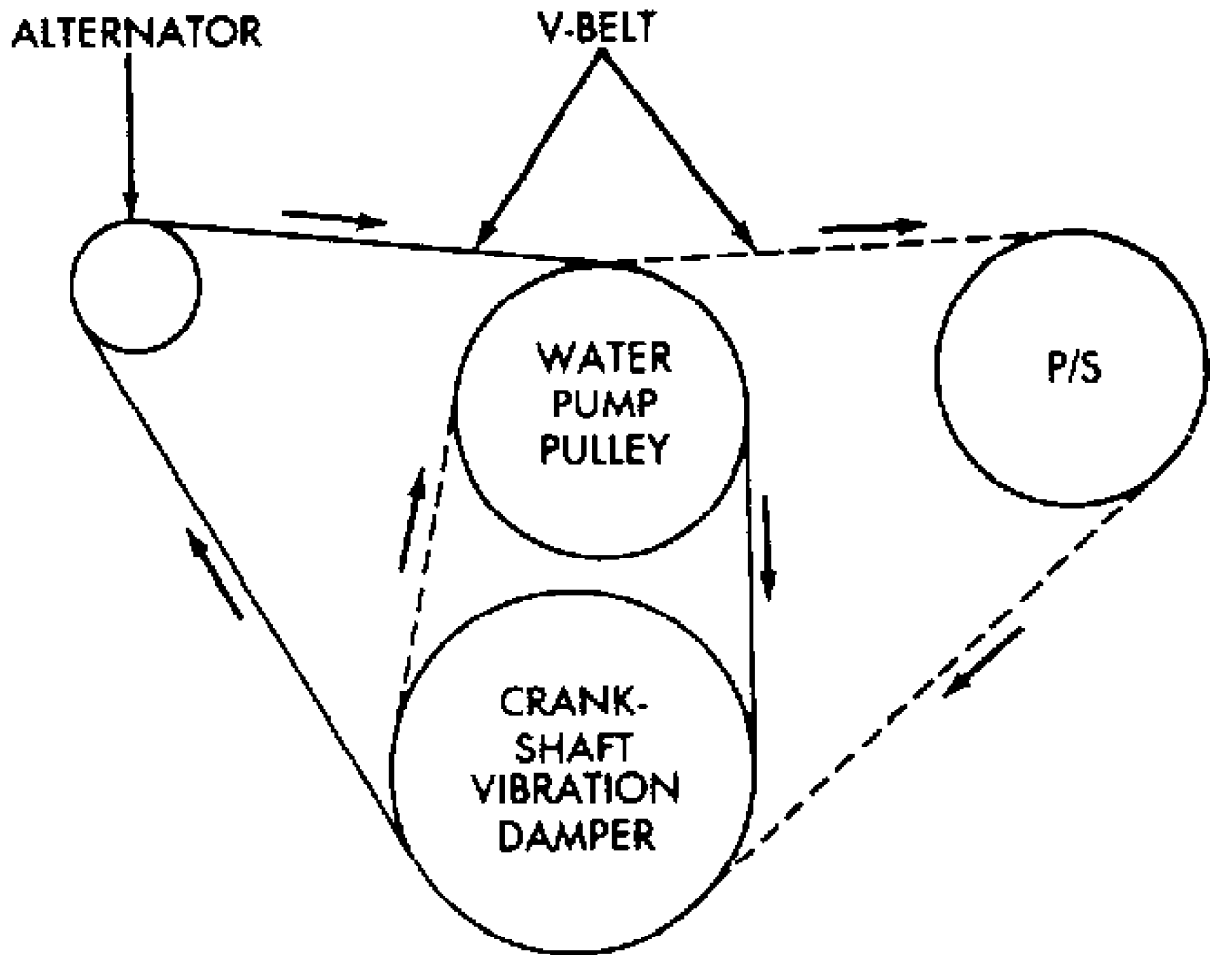


Fig. 20: Alternator, P/S: 4.2L Grand Wagoneer
 Courtesy of Chrysler Motors

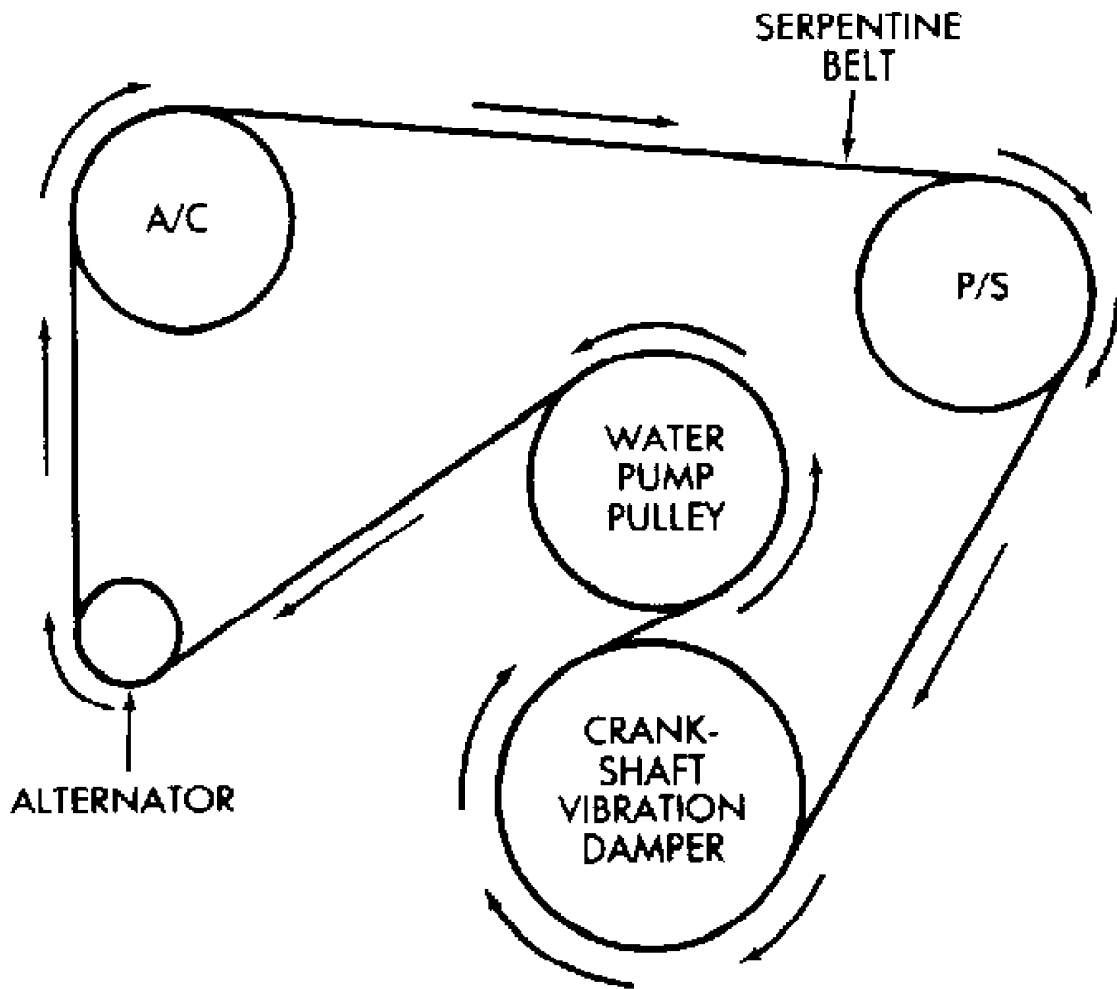
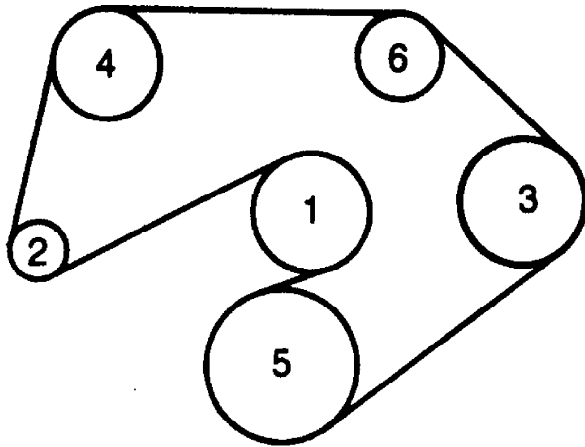
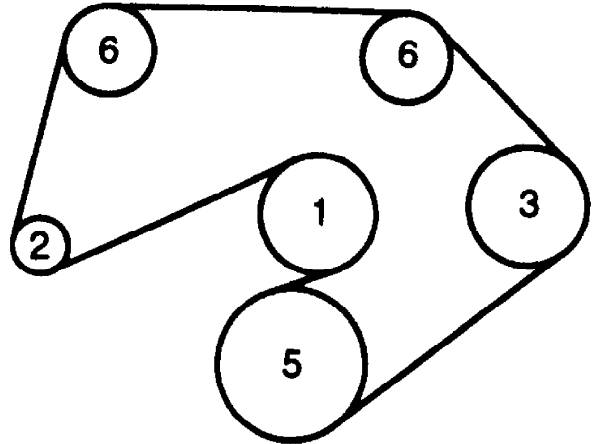


Fig. 21: Alternator W/Serpentine Belt: 4.2L Grand Wagoneer (California)
Courtesy of Chrysler Motors

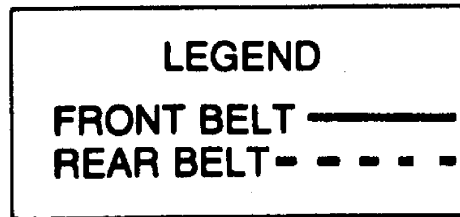


SIX-CYLINDER ENGINE WITH SERPENTINE DRIVE, ALTERNATOR, AIR CONDITIONING AND POWER STEERING



SIX-CYLINDER ENGINE WITH SERPENTINE DRIVE, ALTERNATOR AND POWER STEERING (CALIFORNIA ONLY)

- 1. Water Pump
- 2. Alternator
- 3. Power Steering Pump
- 4. A/C Compressor
- 5. Drive Pulley
- 6. Idler Pulley



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Fig. 22: Alternator, A/C, P/S W/Serpentine Belt: 4.2L Grand Wagoneer
 Courtesy of Chrysler Motors

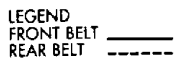
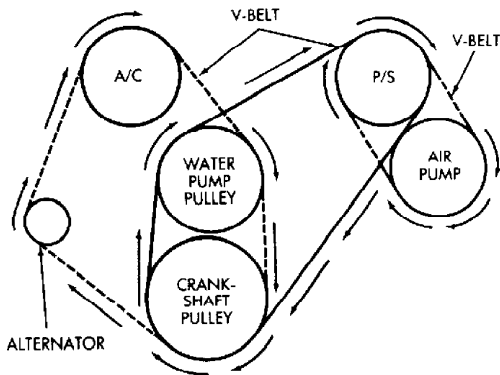
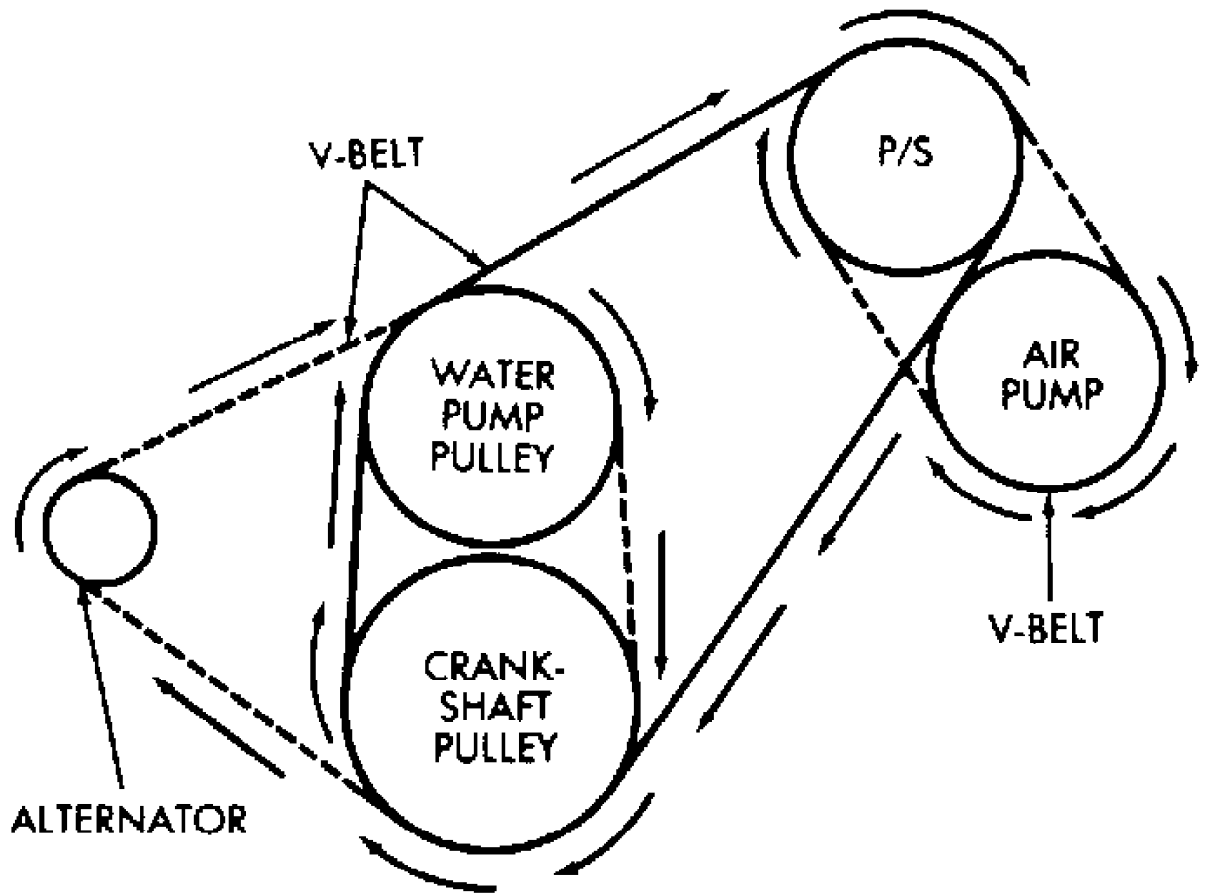


Fig. 23: Alternator, A/C, Air Pump & P/S: 5.9L Grand Wagoneer
 Courtesy of Chrysler Motors



LEGEND
FRONT BELT ———
REAR BELT - - - - -

Fig. 24: Alternator, Air Pump & P/S: 5.9L Grand Wagoneer
 Courtesy of Chrysler Motors

BELT TENSION TABLE

Application	New Belt (1)	Used Belt (1)
All Engines	180-200 (82 - 90)	140-160 (63-72)

(1) - Tension in Lbs. (Kg) Using Strand Tension Gauge