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.
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

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

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

1983-86
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
Fig. 4: Drive Belt Arrangement: 1983-88 2.5L Wrangler  
Courtesy of Chrysler Motors  
1983-86
Fig. 5: Drive Belt Arrangement: 1983-86 4.2L Wrangler
Courtesy of Chrysler Motors
1989
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
COMANCHE AND WAGONEER

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

1983-88
FOUR-CYLINDER ENGINE
DRIVE BELT ARRANGEMENTS

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

LEGEND
FRONT BELT
REAR BELT

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

GRAND WAGONEER

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

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

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

LEGEND
FRONT BELT ——
REAR BELT - - - -

50F00666

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

<table>
<thead>
<tr>
<th>Application</th>
<th>New Belt (1)</th>
<th>Used Belt (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Engines</td>
<td>180-200 (82 - 90)</td>
<td>140-160 (63-72)</td>
</tr>
</tbody>
</table>

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